

## SPECIAL INSERT - THE CAMPAIGN

UNIVERSITY ~ OF ~ TORONTO

# THE BULLETIN

SEPTEMBER 29, 1997 ~ 51ST YEAR ~ NUMBER 4

## INSIDE

UNIVERSITY OF TORONTO  
the campaign

GREAT  
MINDS  
FOR A GREAT  
FUTURE  
UNIVERSITY OF TORONTO

### What makes a university great?

TALENTED FACULTY, GIFTED STUDENTS, innovative teaching and outstanding research are all key ingredients — but so are great friends; the campaign builds on our strengths. S1-S4

### Our guide to U of T Day 1997

LISTEN FOR A HEARTBEAT, SEARCH for fossils, surf the Internet, pan for gold, sit in a “smart classroom” — U of T Day gives you a chance to do all of this and more! Pages 10 and 11

### Authors and editors abound

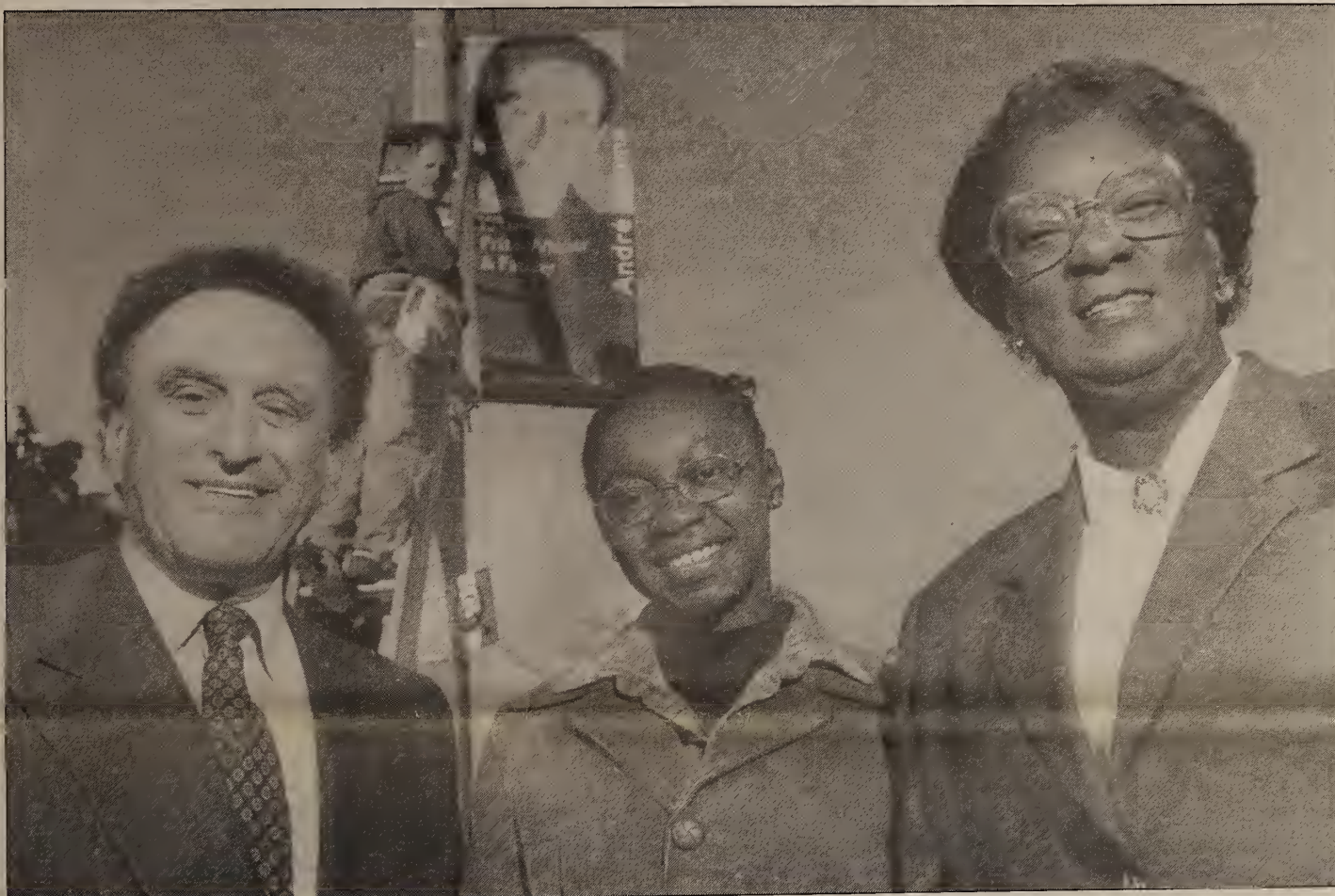
BOOKS BY U OF T FACULTY AND staff cover an amazing range of topics; and our columnist Nick Pashley returns. Page 14

## VISIT

## ON THE INTERNET

A review of U of T sites online — sites of interest to faculty, staff and students and our biweekly featured site. Page 2

## THE CAMPAIGN KICKS OFF



SUSAN KING

Professor André Salama, graduate Faith Hower and staff member Susan Bloch-Nevitte are all featured on U of T banners throughout the city.

BY SUSAN BLOCH-NEVITTE

U OF T HAS LAUNCHED THE MOST AMBITIOUS university fundraising campaign in Canadian history with the announcement it will seek to raise \$400 million in private support over the next five years.

The goal of the Campaign for the University of Toronto was revealed Sept. 28 at a gala dinner to kick off Great Minds Week — a series of campus events marking the launch.

The campaign is focused on human capital,

with more than two-thirds of the goal earmarked for endowed faculty chairs, student scholarships, fellowships and bursaries as well as innovative academic programming. Funds

UNIVERSITY OF TORONTO  
the campaign

are also being sought for key facilities including a new health sciences centre, enhanced facilities for the physical sciences, and

improved information technologies in the university's libraries and classrooms.

“Our emphasis on great minds will create a legacy that ensures U of T's position as one the world's leading research universities,” says campaign chair Anthony Comper, president and chief operating officer of Bank of Montreal and chair of Governing Council. “Through this campaign we will help ensure that future generations

of top students will have the benefit of a U of T education, regardless of their financial

~ See CAMPAIGN: Page 4 ~

## A Celebration of Great Minds

THE LAUNCH OF THE CAMPAIGN for the University of Toronto is being marked by a week-long celebration from Sept. 29 through Oct. 5 featuring public lectures, performances and the annual U of T Day. In addition the campaign theme of Great Minds for a Great Future will be reinforced through a number of promotions.

Through December, 285 banners portraying 39 U of T alumni, faculty, students and staff will be displayed on roadways in Toronto, Scarborough and Mississauga. The individuals who appear on the banners will also be featured in a

number of campaign publications including the university's annual National Report, scheduled to run in the Feb. 7 edition of *The Globe and Mail*.

An eight-minute video highlighting members of the U of T community and their accomplishments is accompanied by narration donated by U of T graduate Donald Sutherland and music donated by Professor Emeritus Phil Nimmons of the Faculty of Music, a noted jazz artist. The video will air at the Oct. 4 opening of the university's new Visitors Centre.

The campaign leadership and goal will be announced in a series of three advertisements appearing in the Oct. 2 editions of *The Globe and Mail* and *Financial Post*, with the members of the Campaign Executive and Cabinet wearing U of T jackets donated by Créadis/Roots.

The campaign also has its own Web page at [www.uoftcampaign.com](http://www.uoftcampaign.com) and a number of St. George campus service vehicles are sporting the Great Minds for a Great Future message, as are the two buses running between the St. George and Mississauga campuses. Bumper stickers and buttons

with the same message will be distributed at U of T Day Oct. 4.

“The campaign is a terrific opportunity for integration with the overall marketing of the university,” says Susan Bloch-Nevitte, director of public affairs and campaign communications. “As we seek support for a great public research university, we're illustrating U of T's impact in a very direct way. We're putting a human face on the university's accomplishments and there will never be enough banners, bumper stickers or videos to tell the whole story. But it's a good start.”



## IN BRIEF



### Sedra, Finlayson to serve new terms

PROFESSORS ADEL SEDRA, VICE-PRESIDENT AND PROVOST, AND Michael Finlayson, vice-president (administration and human resources), have each been reappointed to further terms extending to June 30, 2001. Governing Council announced the extensions at its Sept. 15 meeting. The reappointments reflect the advice of two committees established by President Robert Prichard last month to advise him and council on the reappointments. "Professors Sedra and Finlayson have served the university with exceptional effectiveness and dedication as vice-presidents and I am very grateful to them for their willingness to extend their terms of service," Prichard wrote in a memorandum to the university community.

### FIS opens Inforum

ON OCT. 3 THE FACULTY OF INFORMATION STUDIES WILL OPEN THE FIS Inforum, a new facility merging print and electronic collections. Located on the 4th floor of 140 St. George St., the Inforum will integrate traditional collection methods and services with increased accessibility to computing and knowledge-producing technologies. The facility will also strive to better reflect the changing information studies curriculum; provide a model for the changing face of academic and professional information service; and serve as a leader in the emerging global information society.

### St. George Street Wins Award

THE REDESIGNED ST. GEORGE STREET, A MAIN TRAFFIC ARTERY running through U of T's St. George campus, has been awarded a City of Toronto Urban Design Award of Excellence, given to recognize projects that make Toronto liveable. The street — which now features widened sidewalks, a narrower roadway for cars and hundreds of newly planted trees, shrubs and flowers — was redesigned by Brown and Story Architects and Van Nostrand Hanson DiCaster Architects and rebuilt last year. Spearheading the project throughout was donor Judy Matthews, who is now an urban designer/planner with the university.

### Zutautas new president of COUSA

DAVID ZUTAUTAS OF ADMISSIONS AND AWARDS, LAST YEAR'S vice-president (external) of the U of T Staff Association, has been elected the 1997-98 president of the Confederation of Ontario Staff Associations and Unions. Founded in 1974 the confederation is composed of 12 employee organizations at Ontario universities with over 5,000 dues-paying members.

## AWARDS & HONOURS



### Faculty of Applied Science & Engineering

PROFESSOR MICHAEL SEFTON OF CHEMICAL engineering and applied chemistry and the Institute of Biomedical Engineering has been invited to serve on the Surgery and Bioengineering Study Section, Division of Research Grants, of the U.S. National Institutes of Health from July 7, 1997, to June 30, 2001. Study sections review grant applications submitted to the NIH; members are selected on the basis of their demonstrated competence and achievement in their scientific discipline as evidenced by the quality of research accomplishments, publications in scientific journals and other significant scientific activities, achievements and honours.

### Faculty of Arts & Science

MARLENE CUMMINS, LIBRARIAN IN THE DEPARTMENT of Astronomy, was honoured with the first Achievement Award of the Physics-Astronomy-Math Division of the Special Libraries Association given for outstanding contributions. The award recognizes those "whose professional work is marked by distinction and dedication to librarianship in astronomy, mathematics and/or physics."

PROFESSOR JOHN PERCY OF ASTRONOMY HAS BEEN awarded the 1996-97 Citation for Exceptional Commitment and Achievement by the School of Continuing Studies. Percy initiated the collaboration between the school and the Ontario Science Centre that resulted in courses on astronomy and star gazing, chaos theory and DNA fingerprinting.

### School of Continuing Studies

MAURILIO COCCA (INTENSIVE ENGLISH PROGRAM), Lieve De Nil (French studies), Simon Siu-Hing So (Cantonese studies), Kurt Markstrom (performing arts), Andrew McDonald (medieval studies) and Anne Michaels (creative writing) were presented with the School of Continuing Studies annual Excellence in Teaching Awards. Recipients were determined through a nomination process and reviewed by the school's Selection Committee for Teaching Awards.

### Faculty of Information Studies

PROFESSOR JOANNE G. MARSHALL OF THE FACULTY of Information Studies and alumna Gwen Harris have received the H.W. Wilson Company Award given by the Special Libraries Association. Marshall and Harris were honoured for their article, Building a Model Case: Current Awareness Service in a Special Library, published in the summer 1996 issue of *Special Libraries*.

### Faculty of Law

PROFESSOR KENT ROACH OF THE FACULTY OF LAW and the Centre of Criminology has been awarded the Walter Owen Book Prize for *Constitutional Remedies*. The prize, intended to recognize excellent legal writing and particularly to reward new contributions to Canadian legal literature, is presented every two years for a book in the English language.

### Faculty of Medicine

DOCTORS ALLAN ABELSOHN, RALPH MASI AND Michael Roberts of family and community medicine have been elected fellows of the College of Family Physicians of Canada. The fellowship is an honorary distinction acknowledging members who have made a significant contribution to family medicine in Canada and to the College of Family Physicians of Canada.

PROFESSOR LORI WEST OF PEDIATRICS IS THE RECIPIENT of the Joe Doupe Young Investigator's Award sponsored by the Canadian Society for Clinical Investigation. The award is given to a young scientist who shows significant promise in the area of basic science research leading to clinical application.

PROFESSOR CECIL YIP OF THE BANTING AND BEST Department of Medical Research has been selected to receive the 1997 McMaster University Distinguished Alumni Award for the sciences. Yip was chosen for his international recognition in the field of medical research, particularly his significant contribution to insulin research. He will be presented with the award at McMaster's fall convocation.

## ON THE INTERNET

### FEATURED SITE

#### The Campaign for the University of Toronto



DURING GREAT MINDS WEEK, SEPT. 29 TO OCT. 5, THE University of Toronto will launch its \$400 million campaign — the largest fundraising effort in Canadian university history — both publicly at various events and electronically on the World Wide Web. The new Web site will provide information on the campaign's fundraising priorities; introduce the campaign's volunteer leadership; feature a listing of special events, such as Great Minds Week; include online campaign publications; and provide biographies on the 39 outstanding alumni, faculty, staff and students featured on the campaign banners hanging throughout Toronto, Scarborough and Mississauga.

[www.uoftcampaign.com](http://www.uoftcampaign.com)

#### U OF T HOME PAGE

[www.utoronto.ca](http://www.utoronto.ca)

#### THE CAMPAIGN FOR U OF T

[www.uoftcampaign.com](http://www.uoftcampaign.com)

#### RESEARCH UPDATES (NOTICES)

[gopher://utl1.library.utoronto.ca:70/11gopher-root70:\[\\_research.\\_research\\_updates\]](mailto:gopher://utl1.library.utoronto.ca:70/11gopher-root70:[_research._research_updates])

#### PHD ORALS

[www.sgs.utoronto.ca/phd\\_orals.htm](http://www.sgs.utoronto.ca/phd_orals.htm)

#### U OF T JOB OPPORTUNITIES

[www.utoronto.ca:80/jobopps](http://www.utoronto.ca:80/jobopps)

If you want your site featured in this space, please contact Audrey Fong, Community Relations Officer, at: [audrey.fong@utoronto.ca](mailto:audrey.fong@utoronto.ca)



### SITES OF INTEREST

#### U of T Day comes to campus

EACH YEAR THE UNIVERSITY PLAYS HOST TO THE GENERAL public, potential students, returning alumni and invited guests at its annual open house which attracts some 20,000 visitors. As part of this year's U of T Great Minds Week, U of T Day will showcase its accomplishments on Saturday, Oct. 4 from 10 a.m. to 4 p.m. The events listed on this Web site are merely a sampling of the entire menu. For more information you can also consult the listing in this issue of *The Bulletin* (pages 10 and 11) or phone 978-UofT (8638).

[utl1.library.utoronto.ca/www/uoftday/index.htm](http://utl1.library.utoronto.ca/www/uoftday/index.htm)

#### Physics sense

WHO WOULD HAVE THOUGHT LAB TECHNICIANS IN THE Resource Centre of the Department of Physics could be so cool? The three who keep this site provide information on the lab's rules and regulations as well as details on its many instruments. But while the staff will help students get computer terminals after hours and lend them books, they will not "answer questions on physics or how experiments work." Obviously the three won't be doing anyone's homework!

[www.physics.utoronto.ca/~2yr\\_lab/rc.htm](http://www.physics.utoronto.ca/~2yr_lab/rc.htm)



# Alumna Gives \$7 Million US

BY KERRY DELANEY

A U OF T ALUMNA IS GIVING \$7 million US — one of the largest private donations ever made to the university — to build 40,000 square feet of state-of-the-art chemistry laboratories for faculty and students.

The donor is Edna Davenport, who received a bachelor of household science degree in 1929. Her gift will be used to add three new floors to the Lash Miller Chemical Laboratories building on St. George Street as well as upgrade existing facilities.

"Thanks to Mrs. Davenport's generosity, the Department of Chemistry, ranked the best of its kind in Canada and among the top departments worldwide, will soon have the facilities to match its reputation," said President Robert Prichard.

Davenport, who now lives in Florida, has long been interested in biological and medical chemistry; her late husband John, a 1929 engineering graduate and U of T champion pole vaulter, funded university scholarships for needy students in the past. The couple met while studying at U of T and married in the Hart House Chapel.

In recognition of this gift the chemistry building's new wing will be named for the Davenports.

"Both my parents remained in touch with the university throughout the years and my father, in particular, had a life-long interest in postsecondary education," said their son, Peter Davenport.

"He would have been behind this gift one hundred per cent."

Professor Martin Moskovits, chair of chemistry, said the current chemistry building houses twice as many researchers and students than originally intended. "The Lash Miller building was built in the 1960s and the discipline of chemistry has undergone a massive transformation since then, leading students and researchers into areas that were not even conceived of 30 years ago," Moskovits noted.

"This gift will enable us to conduct research of the highest calibre in facilities of the highest calibre."

The chemistry building consists of two distinct blocks. Two floors will be added to the classroom block and one to the undergraduate laboratory block, with inorganic preparative labs, laser labs and an ultra-clean environment laboratory among the new facilities.

## CARRYING THE MESSAGE



Driver Al Nunes of campus services in the Facilities and Services Department gets into the Great Minds Week spirit. Twenty-five vans and trucks and the two buses running between the St. George and Mississauga campuses are currently sporting the Great Minds for a Great Future message as part of campaign launch celebrations.

SUSAN KING

## Chemistry Opens New Lab

BY BRUCE ROLSTON

U OF T OFFICIALLY OPENED ITS ANALEST lab, the premier undergraduate environmental research laboratory in Canada, at a Sept. 26 ceremony at Lash Miller Chemical Laboratories.

Made possible by contributions of equipment from the Perkin-Elmer Corp., ANALEST (Analytical Laboratory for Environmental Research and Training) will train over 700 students a year in the most up-to-date instrumental analysis methods.

ANALEST is just the latest confirmation of U of T's leading-edge position in the important and rapidly growing field of environmental studies, said Professor Martin Moskovits, chair of chemistry.

"Aside from the ability to think critically, chemical analysis is one of the most valuable skills that a chemistry or chemical engineering department teaches its students," Moskovits explained. "With it they can determine quantitatively, with resolutions as small as parts per trillion, the nature and structure of a material, an object, a thin layer of

paint, a sample of sea water or a handful of oil-laden shale."

In thanking Perkin-Elmer for its investment Professor Heather Munroe-Blum, vice-president (research and international relations), said giving students and faculty researchers access to the proper tools will inevitably increase the quality of tomorrow's environmental scientists. "Nowhere is the need to learn chemical analysis more

the Faculty of Arts and Science (chemistry, zoology, botany, geology, geography and the division of the environment) and at least three in engineering (chemical and civil engineering and the Pulp and Paper Centre) as well as the collaborative program in environmental engineering. Its instrumentation includes gas, ion and liquid chromatographs, two bench-top mass spectrometers, two atomic absorption

and an atomic emission spectrophotometer. Only at U of T will undergraduate researchers be able to work

on such a complete collection of the latest analysis equipment.

It is this combined focus on educating young minds and training future environmental researchers that attracted Perkin-Elmer's support to ANALEST, said Joseph Malandrakis, vice-president of sales and service, North America, for Perkin-Elmer's analytical instruments division.

"It fulfils several company objectives: meeting the needs of the environmental market, contributing to education and helping to improve the environment," said Malandrakis.

## Association Funds Alzheimer Research

BY STACEY YOUNG

IN RECOGNITION OF WORLD Alzheimer's Day Sept. 21, the Alzheimer Association of Ontario has committed \$2 million to establish a research chair at U of T devoted to the study of the deadly disease.

Located in the Centre for Research in Neurodegenerative Diseases (CRND), the Alzheimer Ontario Chair in Alzheimer's Disease Research will be held by the centre's director. Two years ago current director Professor Peter St. George-Hyslop and colleagues discovered that two mutated genes known as prenilins account for the majority of early-onset Alzheimer's disease.

"This gift represents a continuing partnership between the Faculty of Medicine and the Alzheimer Association of Ontario," said Professor Arnie Aberman, dean of the faculty. "We are proud partners in the fight against this debilitating disease."

Association president John Carriere says the commitment to CRND continues to be the primary focus of the organization's research strategy. "We've been very encouraged by the extraordinary progress that has been made at the centre. Our new commit-

ment is a concrete demonstration of our faith in the world-class work being done by Dr. St. George-Hyslop and his colleagues."

Alzheimer's disease is a progressive neurodegenerative disease characterized by memory loss and personality changes with symptoms progressing from mild memory impairment to severe cognitive deficits and death over a course of seven to 10 years. The disease typically strikes the elderly; 90 per cent of patients report onset at more than 60 years of age.

There are an estimated 17 million to 20 million cases of the disease worldwide and the number of patients is increasing rapidly as the population ages.

"My family has seen firsthand how terrible Alzheimer's can be," said Carriere.

"And our experience is not unique. Everyone who has experienced the slow, painful loss of a loved one knows that we must do everything possible to support the development of a cure."

Alzheimer's associations around the world provide funds for research, practical and emotional help to members, the medical community and affected persons as well as playing an advocacy role on behalf of people with dementia and their families.

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the campaign

## Trinity Receives \$2.5 Million Gift

COMMUNICATIONS EXECUTIVE Edward "Ted" Rogers is donating \$2.5 million to the Trinity College Library in honour of his stepfather, John W. Graham, QC.

The library will be named the John W. Graham Library. Graham, a Trinity College alumnus, worked as a volunteer on many of Trinity's most important projects, was chairman of the executive committee and was instrumental in arranging the

acquisition of Devonshire House which will be the site of Trinity's new library and the Centre for International Studies.

"Ted Rogers and John Graham are exceptional Trinity alumni whose careers have indeed distinguished both men in Canada's business and legal communities," said Professor Thomas Delworth, Trinity's provost. "We are grateful to them for giving back to Trinity in so many generous ways over the years and now most of all in

the lead contribution to the John W. Graham Library."

Graham is the chairman emeritus of Rogers Communications. He graduated from Trinity in 1933 and afterward attended Ogoode Hall Law School. Following a distinguished military career he began practising law, eventually becoming a partner at the Toronto law firm Payton Biggs & Graham and later at Cassels Brock & Blackwell.



# Campaign for U of T Launched during Special Week

~ Continued from Page 1 ~  
circumstances. We also intend to seek support for 175 endowed chairs that will attract and retain top professors from throughout the world."

The campaign is built on the most comprehensive planning exercise in the university's history. The resulting provostial white paper, *Planning for 2000*, published in February 1994, has become a blueprint for U of T academic development well into the new millennium. "In this campaign of campaigns, all

of the university's 28 divisions, colleges and faculties have identified priorities that reflect their unique contribution to the institution. Those priorities recognize that people shape this university, and will shape this university's future," Comper says.

President Robert Prichard notes that to remain competitive, U of T must strengthen its support both from governments and the private sector.

"The dollar value of our aspirations significantly exceeds our goal

but with the help of great friends we're undertaking an ambitious campaign to address as many of these priorities as possible. We're augmenting public support, not replacing it, and in doing so we're engaging thousands of people in the mission of this university."

Several hundred volunteers are assuming leadership positions in the campaign. The 24-member Campaign Executive will guide the overall campaign. The 33-member Campaign Cabinet will head the 28 divisional campaigns and the

Group of 175 will seek the involvement and commitment of individuals throughout Canada and internationally. This growing group of leaders will help U of T achieve its goal by 2002 when the university celebrates its 175th anniversary.

"Volunteers play a pivotal role in this campaign," says Jon Dellandrea, vice-president and chief development officer. "It's their passion for U of T that has already enabled us to raise \$275 million towards our goal."

At launch, slightly more than a third of the money raised has gone to student financial aid and just under a third to academic program support. Another 15 per cent is in support of lectureships, professorships and chairs while gifts in kind such as land and equipment represent another 15 per cent. Five per cent of funds raised have gone to capital projects.

Dellandrea notes the campaign budget of \$23.171 million is well within the accepted standard of from five to nine per cent of the

goal for campaigns at large institutions. He says the operating funds are coming from a holdback on interest from donations as well as from a small portion of income earned annually from the university's central endowment funds.

Comper says the campaign goal represents only private sector support although the university has also set a parallel goal of \$200 million in future bequests. He adds the university will continue to rigorously pursue government matches on private gifts such as the recent Ontario Student Opportunity Trust Fund. The program matched private gifts to student aid and coupled with the university's own match resulted in a \$240 million endowment for student aid at U of T. Looking ahead, Comper says that future partnerships with the Canada Foundation for Innovation and the Ontario Research and Development Challenge Fund present extraordinary opportunities for private and public sector funding of nationally important research.

## 25 YEAR CLUB ANNUAL EVENT TO HONOUR NEW MEMBERS

On Tuesday, October 21, 1997, the Chancellor will be hosting a reception for new and present members of the 25 Year Club who have dedicated 25 years of service to the University. Approximately 240 staff will be eligible to join the 25 Year Club this year. At the event each new member will receive a gold University of Toronto 25 Year service pin and a certificate commemorating their service.

In October the Chancellor will be issuing personal invitations to eligible staff to attend the special reception which will be held in the Great Hall at Hart House. Eligible staff include full-time or part-time faculty, librarians, unionized and non-unionized administrative staff who attained 25 years of service between July 2, 1996 and July 1, 1997.

Individuals with a break in employment (i.e., left their employment with the University and were later rehired) but whose total years of service at the University is 25 are also included in the program. Since information on this type of non-consecutive service is not available on the Human Resources database, all those who fall into this group are asked to contact Lucy Danesi at 978-8587, Employment and Staff Development, Human Resources Department, as soon as possible so that they may be appropriately recognized.



## THE BULLETIN Schedule 1997-98

During 1997-98 *The Bulletin* will be published on the following days:

|              |             |             |         |
|--------------|-------------|-------------|---------|
| SEPTEMBER 15 | NOVEMBER 24 | FEBRUARY 16 | MAY 4   |
| SEPTEMBER 29 | DECEMBER 8  | MARCH 2     | MAY 19  |
| OCTOBER 14   | JANUARY 5   | MARCH 23    | JUNE 1  |
| OCTOBER 27   | JANUARY 19  | APRIL 6     | JUNE 22 |
| NOVEMBER 10  | FEBRUARY 2  | APRIL 20    |         |

### DEADLINES

#### ADVERTISING:

space for display advertising must be booked at least two weeks in advance of the issue in which the ad is to appear. Ad copy must be at *The Bulletin* offices no later than 10 days before the publication date.

#### CLASSIFIED ADS:

must be submitted in writing with payment no later than 10 days before the publication date.

For information about advertising in *The Bulletin*, please call 978-2106.

## Car Loan Sale

### Limited Time Offer!

- August 15 to October 31, 1997
- floating prime +1%
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1577 Danforth Avenue, Toronto. Tel: 469-5329  
3025 Lakeshore Blvd. W., Etobicoke. Tel: 251-1722

York Campus, 4700 Keele Street, North York. Tel: 736-5052  
Jorgenson Campus, L158, 350 Victoria Street. Tel: 979-5130  
Humber Campus, Room D140, 205 Humber College Blvd., Etobicoke. Tel: 675-5086



Department of Chemistry University of Toronto

presents

## JOHN AND LOIS DOVE MEMORIAL CONCERT

### THE TORONTO CONSORT

presents

#### "A Woman's Life"

a spectacular multi-media salute to women's music from the Middle Ages and Renaissance

Thursday, October 2nd, 1997

8:00 pm

Hart House Theatre

7 Hart House Circle

(Wellesley Street West of Queen's Park)

Tickets \$10.00 - Students and Seniors \$5.00

Tickets available after September 15th

from Hart House Box Office

(open daily 11:00 a.m. - 5:00 p.m.)



# Prime Minister Announces New Scholarship Program

*Millennium fund will assist students in need*

BY JANE STIRLING

THE ANNOUNCEMENT OF A NATIONAL scholarship program to start in 2000 is the "perfect millennium project for Canada," says President Robert Prichard.

On Sept. 24 in a House of Commons speech Prime Minister Jean Chrétien announced the Canada Millennium Scholarship Endowment Fund for college and university students. The fund will assist those from low- and moderate-income backgrounds. Although details of the project will not be released until mid-October by Finance Minister Paul Martin, Chrétien said the fund would top the \$800 million committed by the government earlier this year to the Canada Foundation for Innovation. In his speech Chrétien also announced

the government would be making changes to the Canada Student Loans Program, particularly increased assistance for students with dependents.

Prichard noted that "the national scope of the scholarship program is an investment in unity and the financial scope is an investment in our next generation. This is the perfect millennium project. The next generation of Canadians must have fair access to the higher education opportunities they so urgently require. This is a major step in the right direction."

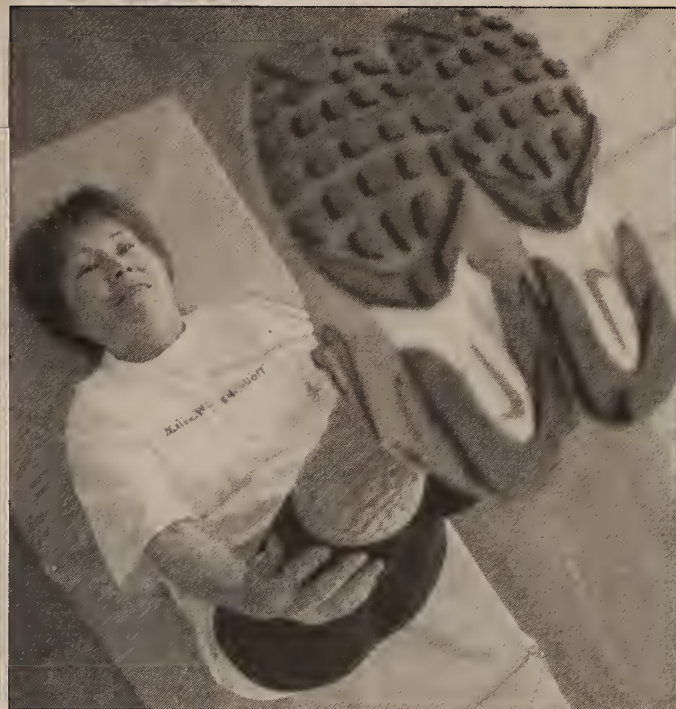
University registrar Karel Swift is pleased the program will link academic achievement to financial need. "Both are important criteria for new scholarships," she said. She is also glad the government plans to consult with universities on the

design of the program.

Ted Salgado, president of the Students' Administrative Council, is cautiously optimistic about the endowment fund. While he welcomes the federal announcement he said the province should provide similar resources. "Five thousand dollars per student (the amount a \$1 billion endowment would provide to 20,000 students) may not pay for too much with the rising costs of tuition and other expenses such as books and cost-of-living. It's a first step but we need more of these programs."

He is also concerned about the academic achievement portion of the scholarship program. "Some low-income students have to make money to go to school or help their parents out so they may not be able to put in the study time to achieve scholastically."

## THAT'S A STRETCH!



SUSAN KING

Patricia Ross cools down after a workout during Celebration of Active Women, a week of activities for women and their families hosted by the Department of Athletics and Recreation and Hart House Sept. 22 to 28. The week's events included cycling and weight-lifting workshops, adult and child gym times, basketball games and movement and relaxation classes at the Athletic Centre and a discussion series at Hart House.

## Less Gas, More Heat

BY BRUCE ROLSTON

A NEW HEAT RECOVERY AND pollution control system will save the university thousands of dollars in heating costs and dramatically reduce U of T's emissions of nitrogen oxides.

The utilities division of facilities and services will install the new system in the same building that now houses the Central Steam Plant, the main source of heating for the downtown campus.

Instead of using the plant's smokestack, however, flue gases from the building's four natural gas boilers and one cogeneration system will all run through the new installation, contained in a 15-metre tall stainless steel vessel.

While reducing nitrogen oxide emissions, the process used to extract pollutants from the hot gases will also produce a large amount of heated water. Bruce Dodds, the university's utilities director, said piping that hot water into the plumbing of other campus buildings will save a considerable amount in energy costs.

"Essentially, the exhaust gases

will be much cleaner and it will also allow us to cut back on the amount of fuel we have to burn," he said.

The \$4.3 million project will save the university around \$650,000 a year in natural gas costs, assuming current prices. In turn, the reduced reliance on natural gas will cut the university's emissions of carbon dioxide by 16 per cent, said Dodds, or the equivalent of 9,000 tonnes of the gas every year.

The gleaming steel vessel acts as a high-tech scrubber, pushing waste gases from the boilers up from the bottom, and flushing water through the tower's packing from above. The water cools and condenses the water in the gas, removing over a third of its nitrogen compounds and producing the hot water as a byproduct.

The steam plant's new system solves many of potential problems for the university, said Dodds. It anticipates any future increases in gas prices and the imposing of new regulatory standards for pollution and it obviates the need for a new flue in the old smokestack, which cannot handle all five of the boilers running at one time.

## Former American President To Receive Honorary Degree

BY SUSAN BLOCH-NEVITTE

FORMER U.S. PRESIDENT GEORGE Bush has accepted U of T's invitation to receive an honorary degree at a special convocation in November. President from 1989 to 1992, following two vice-presidential terms under Ronald Reagan, Bush is widely acknowledged for his strength in foreign affairs and lifetime career in public service.

Some members of the campus community, however, view his track record in domestic U.S. policy as a less admirable legacy and consider the honorary degree to be inappropriate.

"My concern is that we would offer an honorary degree to someone whose public actions are so inconsistent with the values I thought we as a university espoused," said Professor Sylvia Bashevkin of political science. "It endangers a lot of the progress the

institution has made, particularly under the leadership of President Robert Prichard who, when he became president, was representative of a new generation committed to tolerance and open-mindedness, not the biases that characterized this university in the past. Bush's domestic policy set back the U.S. civil liberties and women's rights movements to a considerable margin. I would argue that his was an extremely divisive legacy."

But Professor Jean Edward Smith, also of political science, has a different view. "You can't give honorary degree recipients a litmus test of political correctness," Smith said. "Any American president is distinguished and no one but Bush could have put together the 28-nation coalition that challenged Saddam Hussein and ultimately led to the liberation of Kuwait in

1991." He added that Bush's foreign policies also played a critical role in the collapse of Communist governments in eastern Europe.

Bush is one of a number of current or former heads of state who have received honorary degrees from U of T. Among them are Prince George of Wales (George V) in 1901; Crown Prince Olaf of Norway in 1943; former Irish president Mary Robinson in 1994; former German president Richard von Weizsäcker in 1996; and Czech Republic prime minister Václav Klaus last February.

Also receiving honorary degrees from U of T this fall are former Portuguese president Mário Soares; professor and scholar Sander Gilman; writer, actor and director Robert LePage; *Historical Atlas of Canada* director William George Dean; and business leader Laurent Beaudoin.



Department of Immunology

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McLeod Auditorium

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September 30, 1997

David Blythe, Silicon Graphics  
What's the Buzz About 3D Graphics?

October 7, 1997

Gabby Silberman, Centre for Advanced Studies, IBM Toronto  
Deep Blue: IBM's Massively Parallel Chess Machine

October 28, 1997

David Penny, Algorithmics  
Commercial Software Development and its relationship to academic  
computer science

November 11, 1997

Larry Constantine, University of Technology, Sydney  
Measuring Usability: Evolving Quality Metrics for User Interface Designs

November 25, 1997

Alberto Mendelzon, University of Toronto  
The World Wide Web as a Database

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**ART** Call 978-8398 \*\*\*\*\*

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tions from the Hart House Permanent Collection, to Sat. Oct. 4. Gary Evans, "Field Work,"  
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5-7pm in the Gallery.

**The Arbor Room** - "Staff", Sam Harris, to Oct. 11. Marta Baricsa, Oct. 13 - Nov. 15.

**LIBRARY** Call 978-5362 \*\*\*\*\*

**Library Committee** - Celebrated BC poet, Gregory Scofield reads from "Love Medicine  
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Limit 15. Sign up at the Hall Porters' Desk. Call 978-2452 for info.

**Investment Club** - Speakers Series: David Gordon, Financial Advisor with Midland  
Walwyn, "Taking Advantage of Changing Global Events," Wed., Oct. 8 at 5pm in the  
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**Jazz Ensemble** - Tenor Sax, Trombone, Bass players and singers are still needed.

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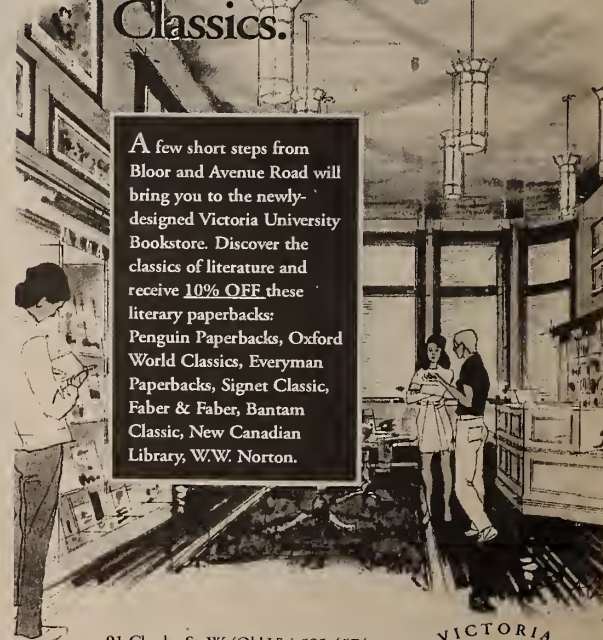
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# Inventions Policy Offers Choice

BY SUZANNE SOTO

THE UNIVERSITY'S REMODELLED inventions policy is working very well and largely accounts for a surge in the number of researchers' inventions licensed by U of T and the increase in the revenue generated from these inventions.

Figures are still being tallied for the 1996-97 academic year but early estimates indicate university inventions generated over \$3.3 million in gross licensing income, much of it through U of T's Innovations Foundation, which licenses and commercializes university-created technology.

Among the most successful inventions the foundation has marketed are a dental implant created by researchers in the Faculty of Dentistry in 1988 led by Professor Robert Pilliar and a blood test that detects genetic flaws in pigs developed by University Professor David MacLennan of the Banting & Best Department of Medical Research in 1992, said Peter Munsche, assistant vice-president (technology transfer).

The university, Munsche said, receives only a portion of the licensing income. Most of the money goes to inventors, the foundation and other organizations, such as affiliated teaching hospitals. "There are hundreds of technology licensing offices throughout North America but very, very few of them actually break even," Munsche said. "The Innovations Foundation is one of those few."

Both Munsche and foundation president Edward Kenney say this is quite a different story from five years ago when the foundation lost more money than it earned each year. A key event that helped turn things around was a rewriting of

the university's invention policy in 1990.

Before then, researchers creating and developing new technology at the university had no choice but to take their work to the foundation if they wanted to patent, license and commercialize it. The new policy removed this monopoly and introduced choice: inventors can now take their work to the foundation, offer it to an outside



Peter Munsche

licensing agency or seek to license and patent their inventions themselves.

This has not only created better relations between researchers and the foundation but has led to a significantly higher number of inventions being disclosed to the agency. In turn, the foundation has become more selective in the kinds of projects it decides to market. "The foundation sees approximately 100 disclosures a year and selects only 12 to 15," Munsche said. "That selectivity allows it to be more successful."

Now that inventors can take personal ownership of their inventions, most choose that option, Munsche said. They are then responsible for patenting, market-

ing and licensing the invention — often with the help of the Innovations Foundation — and are entitled to keep 75 per cent of the net revenues; the university receives the rest and these revenues are shared among the inventor's department, faculty and general revenue. In the case of very successful inventions, the bulk of the university's revenue is put into the Connaught Fund.

Currently, Munsche said, the foundation is marketing not only U of T inventions but those of other institutions as well, including its affiliated teaching hospitals, some centres of excellence and recently those of other universities. Two years ago U of T, McMaster University, the University of Windsor, York University and Ryerson Polytechnical University successfully petitioned the Natural Sciences and Engineering Research Council to fund more technology transfer activities at the five institutions. NSERC is now providing them with \$150,000 a year for licensing purposes and the five universities chose the Innovations Foundation to handle such licensing.

"This is significant because not only does it provide the foundation with a larger pool of inventions from which to draw but it also opens up the possibility of combining technology from the various institutions and in so doing, making it more attractive commercially," Munsche said.

As successful as the foundation is, Munsche added, it is not the only licensing-revenue generator on campus. In 1995-96 inventions licensed by researchers themselves or through other licensing agencies generated another \$900,000 in gross royalties.

# COMPUTER CHIP PROVES LUCRATIVE

BY BRUCE ROLSTON

NOT ALL OF THE NEW LICENCES U of T stands to benefit from come through the Innovations Foundation. Some of the most promising new patents are marketed independently, like one graduate student's innovative way to increase the speed of computer processing, which could be key in the next generation of computer graphics controllers.

Duncan Elliott, an electrical and computer engineering doctoral student, has licensed the Computational Random Access Memory concept he developed at U of T to Accelerix, an Ottawa-based semiconductor company, for inclusion in its PhantASM high-performance graphics accelerator.

"I wanted to do something not only of academic significance but something that would have an impact in the real world," Elliott, now a new professor at the University of Alberta, said of his doctoral research.

Since his work was done while he was a U of T student the university receives 25 per cent of the licensing fee Elliott receives from Accelerix for his patent. The university's share is "quite reasonable," said Elliott. "If the old inventions policy was in effect, I wouldn't have devoted the personal energy into developing this."

While the Innovations Foundation wasn't involved directly in licensing his invention, the young inventor said the free advice he received from the organization was very helpful. "Without their advice we never would have got around to filing patents."

Elliott's invention adds processing power into a computer memory chip. Conventionally, data processing is done by a separate processor; Elliott suggested incorporating the processing elements inside the chip, leading to a significant improvement in its performance. The super-efficient PhantASM chip will allow home and laptop computers to process colour graphics and video images at twice the current speed while using less electrical power.

Accelerix, whose chief owners are Mosaid Technologies Ltd. of Carp, Ont., and a British company, will incorporate the new technology in its new line of computer graphics controllers for personal computers. Industry analysts say the technology could account for 10 per cent of the \$3 billion-a-year graphics and video chips market worldwide by the end of this decade. While the exact value of its share remains undisclosed, the combined licence fee and royalties are expected to be the most lucrative fee for a physical science innovation ever received by U of T.

## The Bulletin

invites readers to submit information regarding awards and honours as well as death notices of staff and faculty. Please include as much background information as possible and in the case of obituaries, a CV is especially welcome.

Please send, deliver or fax the information to:

SUZANNE SOTO, EDITOR,  
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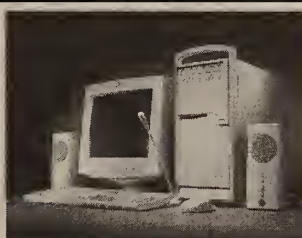
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## IN MEMORIAM

### James Ham: Former U of T President, Canadian Engineering Leader

**P**RESIDENT EMERITUS JAMES Milton Ham came from rural beginnings. The first job he ever had was stapling red gauze on farmers' peach baskets while growing up in the small village of Coboconk, Ont.

Son of a lumber mill owner, Ham would eventually leave the peaches and Coboconk behind, attracted to the big city and the lure of a career in engineering — a career that would carry him to the highest position at Canada's largest university.

Born in 1920 Ham began his lifelong relationship with U of T upon completing high school, when he enrolled in the electrical engineering program. He was a brilliant student, achieving the highest graduation marks his faculty had ever seen and winning several prestigious awards. His academic career, however, was interrupted by World War Two. After completing his degree in 1943 Ham joined the Royal Canadian Navy as an electrical officer. When the war ended two years later, U of T recruited him to teach engineering to other returning veterans at its newly opened Ajax campus.

Ham then left the university for the second time to pursue graduate studies at what is considered the intellectual capital of engineering, the Massachusetts Institute of Technology, specializing in the growing field of control engineering. After receiving his doctorate in 1952 he taught at MIT for a year but when U of T offered him an associate professorship, he returned to the city and institution he would call home for the next 44 years.

At U of T, Ham rose steadily through the ranks, becoming a full professor in 1959, head of the



department of electrical engineering in 1964, dean of the Faculty of Applied Science and Engineering in 1966, dean of the School of Graduate Studies in 1976 and university president in 1978.

As president he oversaw a university coping with the first real signs of public funding restraint the postsecondary sector had seen in decades. His calls for belt-tightening culminated in what he called the "great fight" of 1982 with the U of T Faculty Association, with the university opposing what it saw as an unaffordable salary increase recommended by independent arbitration.

Ham's tenure also saw the beginnings of U of T's outreach to East Asia. He made two official visits to Japan, Korea and China and helped establish a fund to support Korean studies, an act that won him an honorary degree from Seoul's Hanyang University. U of T's Centre for South Asian Studies was also established during this period. His persistent lobbying laid the

financial groundwork for the Koffler Student Services Centre and the Earth Sciences Centre, which was completed after he left office.

After his five-year term as president, Ham returned to his real love, teaching first-year students. When his faculty told him he could do or teach whatever he wished, he immediately volunteered to teach a first-year calculus class. While receiving his pension he worked without pay for the next five years.

In 1988 Ham was granted the titles of professor and president emeritus. Even after his teaching career concluded he kept busy, his greatest accomplishment during this time being the founding of the Canadian Academy of Engineering. Ham, who always saw engineering as more than a technical pursuit, was key in the academy's emerging as the coordinating voice of engineering in Canada.

"Engineering," he once wrote, "is a profession that serves human needs. It requires sensitivity to the physical potential of materials, the logic of mathematics, the constraints of human, physical and economic resources. Engineers have a responsibility to protect the health and safety of the public." Ham put those words into practice in 1976 when his one-man royal commission on the health and safety of mining workers led to new provincial occupational health and safety legislation. In 1980 he was appointed an officer of the Order of Canada.

On Sept. 16 Ham died of complications from Parkinson's

disease. He was 76 years old. At a funeral service held Sept. 19, Professor Emeritus Gordon Slemon of electrical and computer engineering described him as "my head of department, my dean, my

president, my exemplar and my friend.

"Jim Ham has been a leader in Canadian engineering. He has made a difference. He will be missed."

### McNaught: Historian, Activist

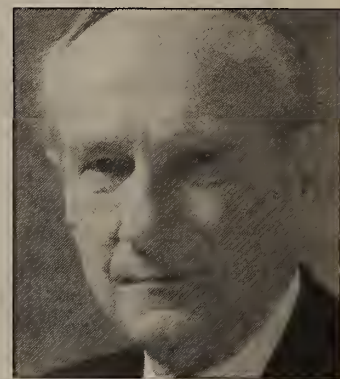
**P**ROFESSOR EMERITUS KENNETH McNaught of the Department of History died June 2 of cancer. June 2 was election day in Canada and "true to form," writes Professor Laurel MacDowell in a memorial notice, "he had voted in the advance poll." He was 79 years old.

Born in Toronto in 1918 McNaught was educated at Upper Canada College and U of T, receiving his PhD in 1950. He taught at United College, now the University of Winnipeg, before joining U of T's history department in 1959 where he taught until his retirement in 1984.

"McNaught was a scholar of the old school with an ingrained sense of public service and an educator both by his example and his training," MacDowell said. He was also political. Despite a privileged background and the Cadillac he drove for some years he was a democratic socialist. He was influenced politically by his father Carlton, who had participated in the League for Social Reconstruction, a group of left-wing intellectuals in the 1930s, and was associated with *Canadian Forum*. A journalist himself, Kenneth was a columnist for *The Toronto Star*; he also wrote frequent, opinionated letters to the press on issues such as Quebec, free

trade, cuts to public health and post-secondary education and more recently on neo-conservatism.

As a professor of Canadian history he is perhaps best known for his biography of Co-operative



Commonwealth Federation founder J.S. Woodsworth, *A Prophet in Politics* (1959). Other works included *The Winnipeg General Strike: 1919* (1974), *The Pelican History of Canada*, which has been reprinted six times and in many languages, *Canada and the United States*, a high school textbook he co-authored, and *English Canada Speaks Out* (1991), a book he edited out of his concern over the Quebec situation and the future of the country.

McNaught was recognized as an educator and for his well-known social conscience earlier this year with his appointment to the Order of Canada.

## Has the university lost its place in modern society?

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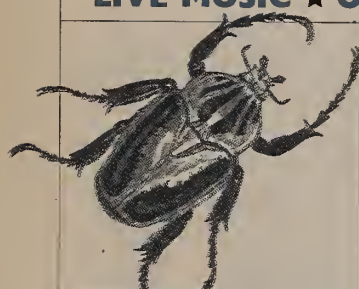
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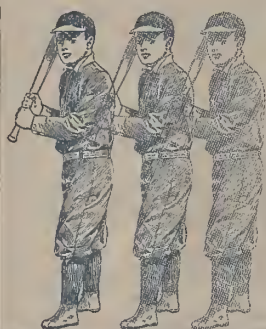


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Challenges in the Sciences

4:15 - 5:30 pm

Challenges in the Humanities

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8 pm

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and first incumbent of the chair

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WED. OCT. 1

4:30 pm

The Stubbs Lecture

"Proof and Faith in

Greek Philosophy"

Prof. Jonathan Barnes,

Department of Philosophy,

University of Geneva

University College, Room 140

THURS. OCT. 2

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2 pm

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### SLOWPOKE Reactor Facility

Take a tour of this tiny facility and watch a super-safe start-up and shut-down. *Haultain Building*

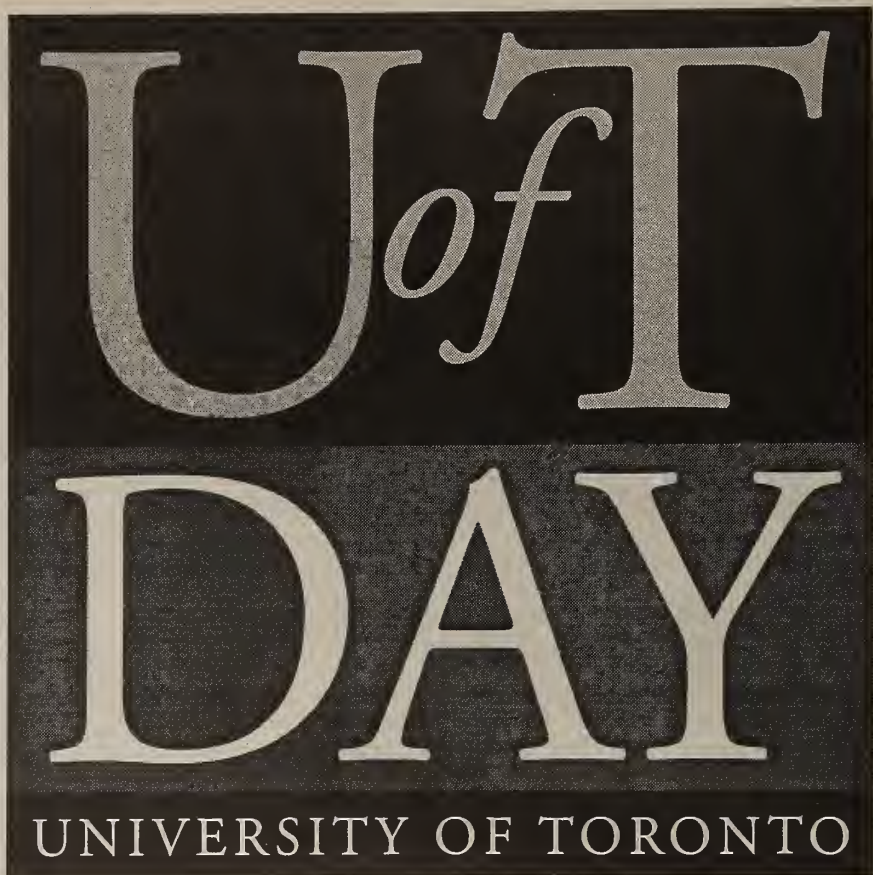
## ARCHITECTURE & LANDSCAPE ARCHITECTURE

Staff and students answer questions and show the facilities. *230 College St.*

## ARTS & SCIENCE SATURDAY

### Mini-Lecture Series

What a Drag: A Social History of Smoking, Linda Hutcheon and Michael Hutcheon, 11:30 a.m.; Bioprospecting with Microbes, Dave Malloch, 12:30 p.m.; The Thin Grey Line: Joking, Flirting and Sexual Harassment at Work, Sandy Welsh, 1:30 p.m.; A Delicate Balance: The Geophysics of a Cold, Wet,



**OCTOBER 4, 1997 – 10 AM TO 4 PM**

Wobbly Planet, Jerry Mitrovica, 2:30 p.m. *Sidney Smith Hall*

### "Smart Classroom"

Investigate state-of-the-art instructional technology. *Sidney Smith Hall*

### Aboriginal Studies

Learn about the native languages of the province and the country. *Sidney Smith Hall*

### Anthropology

View field work in archeology, linguistics, physical and social anthropology. *Sidney Smith Hall*

### Astronomy

Tour our on-campus telescope facilities and check out the view. *McLennan Physical Laboratories*

### Botany

See all kinds of plant biology and learn about biodiversity and bioengineering. *Earth Sciences Centre and Greenhouse*

### Chemistry

Check out a glassblowing demonstration, test your knowledge and win a lab coat. *Lash Miller Chemical Laboratories*

### Classics

Watch a presentation of *I Claudius*, try a quiz to win a book. *Sidney Smith Hall*

### Computer Science

Learn about leading-edge graphics and animation, meet a robot and embark on a scavenger hunt on the Web. *Sandford Fleming Building*

### Computing in the Humanities & Social Sciences

See demonstrations of online resources: the Web, the *Oxford English Dictionary*, CHASS data centre, economics databases. *Sidney Smith Hall*

### Drama Program

Participate in classes and ask students about studying drama. *Helen Gardiner Phelan Playhouse*

### East Asian Studies

Catch displays on the booming Asian market: China, Japan, Korea and India. *Sidney Smith Hall*

### Economics

Test your knowledge of economics. Meet *Boom, Bust and Echo* author David Foot. *Earth Sciences Centre*

### English

See displays of illuminated manuscripts from Beowulf to Chaucer. *Sidney Smith Hall*

### French

Savour the flavour of France through games and goodies. *Sidney Smith Hall*

### Geography

Enter the Geography Challenge and try software and online learning. *Physical Geography Building*

### Geology

Pan for gold, search for fossils, watch rock-eating bugs. *Earth Sciences Centre*

### History

Test your knowledge of world history. *Sidney Smith Hall*

### Italian

Check out famous Italian artists on CD-ROM, catch a video, win some treats. *Sidney Smith Hall*

### IsoTrace Laboratory

Discover how artifacts are dated and precious metals are found. *McLennan Physical Laboratories*

### Linguistics

Decode linguists' symbols, try phonetic transcription, see your voice on a computer screen. *Sidney Smith Hall*

### Mathematics

Enter donut-slicing Olympics, test your skills and logic and attend a noon-hour lecture. *Sidney Smith Hall*

### Near & Middle Eastern Civilizations

Unearth languages, literatures, histories and peoples. *Sidney Smith Hall*

### Physics

Learn how physics affects your day-to-day life. *McLennan Physical Laboratories*

### Political Science

Test your political knowledge. *Sidney Smith Hall*

### Psychology

Take in a lecture on aging and memory at 2 p.m. *Sidney Smith Hall*

### Study of Religion

Discover the myths, rituals and beliefs of the world's religions. *Sidney Smith Hall*

### Spanish & Portuguese

Visit the Ibero-American studies interdisciplinary program. *Sidney Smith Hall*

### Zoology

Discover how zoological research improves our health. *Ramsay Wright Zoological Laboratories*

### Science Outreach

Hands-on activities for students in Grades 4 to 10. *Sandford Fleming Building*

PLUS: Visit displays from Fine Art, German, Philosophy, Slavic Languages & Literatures, Commerce, Sociology, History & Philosophy of Science & Technology, Criminology and Employment Relations.

## COLLEGES

### Erindale College

Find out what's up at U of T's Mississauga campus. Win a sweatshirt. *Sidney Smith Hall*

### Innis College

Take a tour of the new residences and find out about this student-centred academic community. *Sidney Smith Hall*

### New College

Discover our computer facilities, learn Japanese and take a tour. *40 Willcocks St.*

### St. Michael's College

Tour the college and catch the student-alumni touch football game. *Sidney Smith Hall and 81 St. Mary St.*

### Scarborough

Find out about programs, student services and facilities, including co-op programs. *Sidney Smith Hall*

### Trinity College

Check out programs. Catch a Noel Coward production at 2 and 8 p.m. *Sidney Smith Hall, 6 Hoskin Ave. and 15 Devonshire Place*

### University College

Find out about programs. Take a historic tour. Relax at Diablos Coffee Pub. *Sidney Smith Hall and 15 King's College Circle*

### Victoria College

Take a tour, pick up info, catch a luncheon lecture at 11 a.m. (cost \$12). *Sidney Smith Hall and 73 Queen's Park Cres.*

### Woodsworth College

Discover programs, services and the alumni book sale, 9 a.m. to 6 p.m. *Sidney Smith Hall and 119 St. George St.*

### Wycliffe College

Learn about this evangelical Anglican graduate theological college. *5 Hoskin Ave.*

## DENTISTRY

See why and how cavities are drilled, have a special camera look inside your mouth and show your teeth on a TV screen. *124 Edward St.*

## INFORMATION STUDIES

Search the Internet, take guided tours, try out the equipment and experience the library of the future now. *140 St. George St.*

## LAW

Watch a panel discussion entitled From Law Student to Lawyer, take a tour of the library and witness a mock cross-examination at 11 a.m. *78 Queen's Park*

## MEDICINE OPEN HOUSE

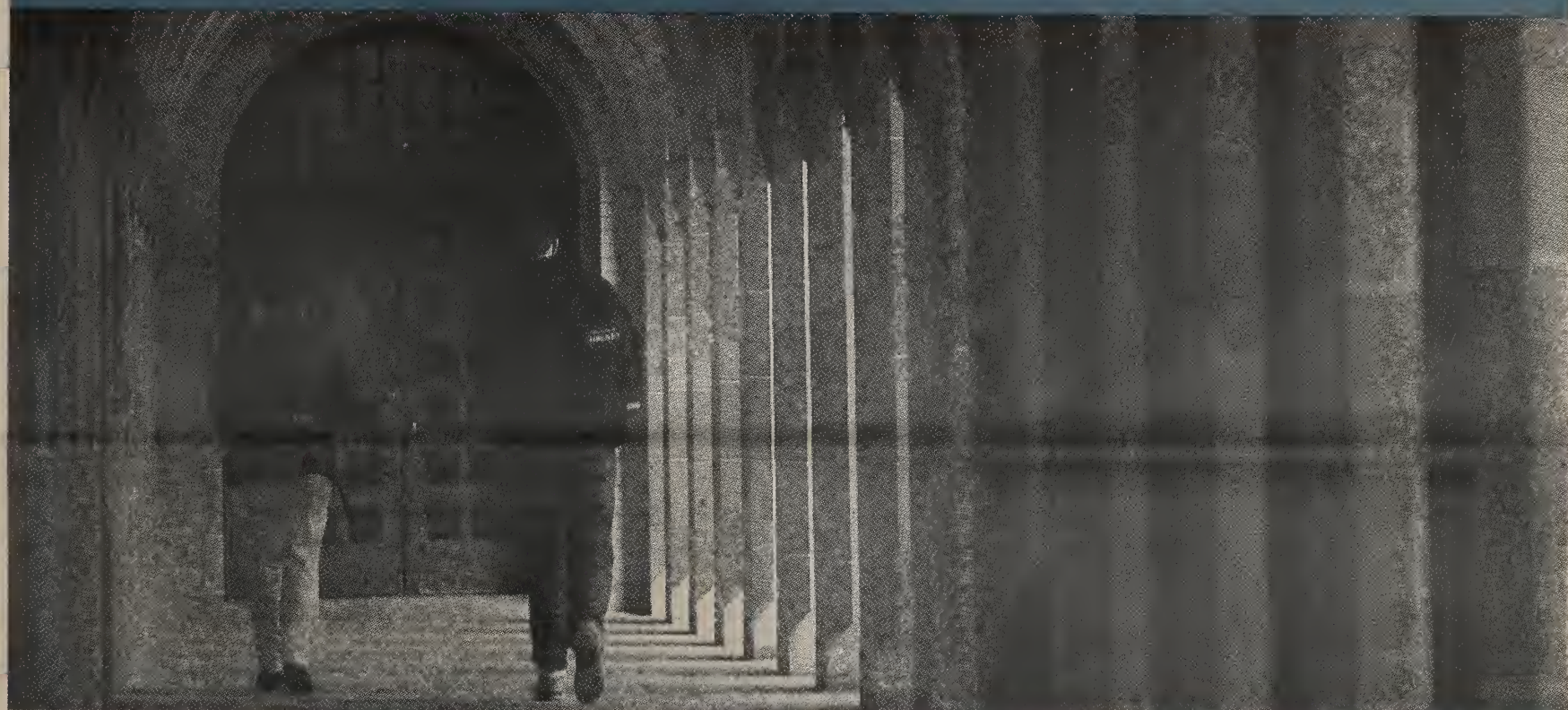
*Medical Sciences Building*

## Admissions

Question counsellors about admission requirements and ask students about the med school experience.



# GREAT MINDS FOR A GREAT FUTURE



Canada's most ambitious university fund-raising effort requires the dedication of many. A "campaign of campaigns," it comprises the aspirations of all our colleges and academic divisions, each having determined its unique contribution to Canada's leading research university. The involvement of hundreds of volunteers and extraordinary levels of support from UofT friends and family will lead us to our goal and create an enduring standard of private support for a great public university.

Our volunteers are giving freely of their time, their energy and their vision to the Campaign for the University of Toronto. They are the driving force behind a campaign unlike any other in Canada in its scope and ambition. As chair of the Campaign for the University of Toronto, I thank them for all they have done, and all they will do to make UofT a better place forever.

*F. Anthony Comper*

F. ANTHONY COMPER (B.A. 1966)  
CHAIR, CAMPAIGN EXECUTIVE COMMITTEE



*J. Robert S. Prichard*

J. ROBERT S. PRICHARD (LL.B. 1975)  
PRESIDENT, UNIVERSITY OF TORONTO

What defines a great University? Great students and great faculty are two absolutely essential elements. However, no university can aspire to greatness without a third element: great friends.

This Campaign is about building stronger partnerships between the University and its alumni and supporters. We are also bringing a new generation of great friends into the University community. Our success will provide the resources required to attract and sustain future generations of great professors and gifted students.

Thousands of our friends around the world have already expressed their support for the Campaign. Over the coming years, we will widen our efforts, and build strong and lasting partnerships across Canada and around the world.

This Campaign is based on the accomplishments of nearly two centuries of the faculty, students, staff, graduates, and friends of the University. This is the time to move forward, and build an even stronger future for the University of Toronto.

UNIVERSITY OF TORONTO •  
**thecampaign**





# Great Minds for a Great *Future*

What makes UofT Canada's national university and one of the world's great public research universities? Great minds—our students, alumni, faculty and staff. Great minds are our strength and our future. They are the link between almost two centuries of achievement, and new opportunities for the 21st century. They are the reason the University of Toronto is seeking to raise \$400 million in private support by the turn of the millennium.

## DEFINING A GREAT UNIVERSITY

The University of Toronto provides the widest range of programs in the Canadian university system. Many UofT programs are comparable to the world's best. Our students are among the most talented in Canada, with an average entering grade of 85.1 per cent. UofT also has the highest number of Rhodes Scholars among Canadian universities over the last 30 years. Each year, approximately 10,000 students graduate and go on to live and work in every part of the world.

UofT consistently attracts more external research funding than any other Canadian university. Over the past 15 years our professors—who represent only seven per cent of all Canadian university faculty—have won almost 25 per cent of the major fellowships and prizes awarded to Canadian scholars. Six Nobel Prize winners are graduates of the University of Toronto or current or former faculty members.

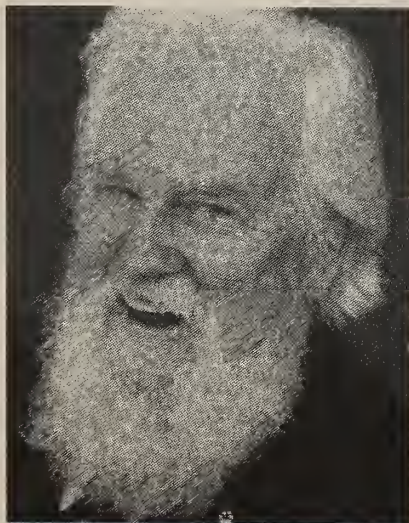
Among libraries in North America ours ranks second only to Harvard in acquisitions. In total volumes we're among the top five research libraries in North America.

Canada's first spin-off company, Connaught Laboratories, was created from UofT's pioneering discovery of insulin. Today Connaught is the world's largest supplier of vaccines and one of 72 companies resulting from UofT research innovations. The University also established Canada's first company to license university technologies, the Innovations Foundation, which has won two Canada Awards for Business Excellence.

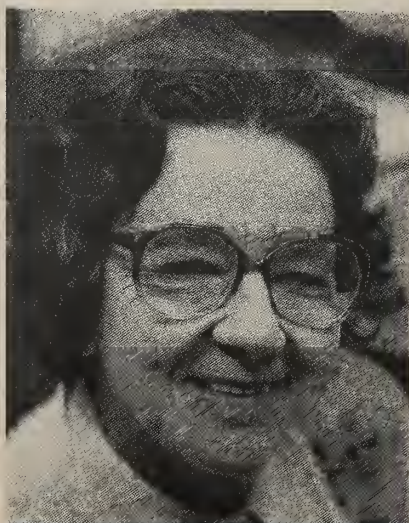
More UofT alumni give to their University every year than do alumni from any other major Canadian research university. Their support and involvement attest to the exceptional work of a great university.

## The Campaign: Building on our *Strength*

We are working with our great friends to raise \$400 million through the Campaign for the University of Toronto. Our objective: to ensure our graduates and researchers will continue to compete with those of the world's top



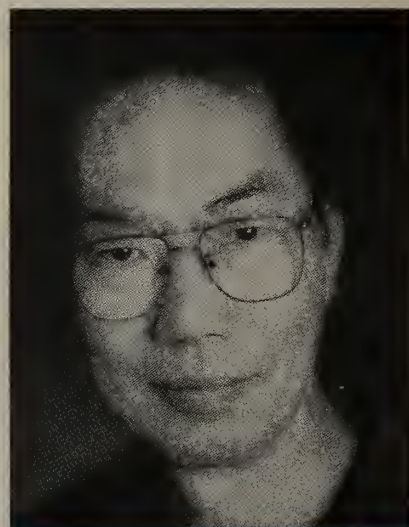
**ROBERTSON DAVIES**  
Internationally renowned writer Robertson Davies (1913-1995) taught English literature at Trinity College for 21 years, and is the author of some of Canada's best-loved works of fiction



**URSULA FRANKLIN**  
University Professor Emerita Ursula Franklin is an acknowledged expert in ancient materials and is active in women's issues and the peace movement.



**FAITH HOLDER  
& KATE COCHRANE**  
National Scholar Faith Holder graduated from Victoria College. Rhodes Scholar Kate Cochrane graduated from Trinity College and is a UofT medical student.



**TAK W. MAK**  
Tak W. Mak, a professor at UofT's Faculty of Medicine, is internationally recognized for his advances in immunology.

universities. The Campaign is enhancing our ability to attract top faculty and students, and ensuring our ability to offer innovative programs and provide a great place to learn and conduct research.

Every funding project in the Campaign is based on the results of the most comprehensive academic planning in the University's history. More than 90 per cent of the priorities outlined in the academic plan are based in our faculties, colleges and schools. The result is a "campaign of campaigns" whose impact will be felt across the University. Taken as a whole, the sum of the menu of academic priorities exceeds the campaign goal by a significant margin. This provides an unprecedented opportunity for donors to choose the specific area they wish to support among the University's top academic priorities. Together, our faculty, staff, students and alumni will work with the University's friends and establish lasting partnerships in areas of common interest.

Most of the funds raised will be directed toward human capital—our great minds—through endowed chairs, graduate fellowships, undergraduate student aid, and teaching and research program support. To maximize the return on this investment, we are also seeking funds for enhanced computer networks and digital libraries, upgrades to laboratory and teaching facilities, and select capital projects.

## GREAT PROFESSORS

The University's ability to attract and retain top scholars will directly determine its ability to make an impact at home and abroad. We are seeking support for 175 endowed chairs—ensuring that these faculty positions will always be secured as areas of study. Of this total, 100 are Faculty Renewal Chairs at \$1 million each, matched by the University, to retain excellent faculty members, and 60 are New Opportunities Chairs at \$2 million each, to attract internationally recognized professors in areas of critical importance.

The Campaign is also seeking \$15 million to endow the University Professors program in perpetuity. University Professorships recognize outstanding scholarship and are the highest honour UofT bestows on its faculty members. The number of University Professors is limited to a maximum of two per cent of the University's tenured faculty. Today, there are 27 University Professors at UofT.

## GREAT STUDENTS

To educate a new generation of leaders, UofT must enhance its ability to recruit top students by providing increased scholarships, fellowships and bursaries to qualified students. Our early efforts to raise funds for student aid have been an outstanding and unprecedented success. More than 33,000 supporters have committed more than \$85 million which, when matched by the University and the Government of Ontario, will create an endowment of over \$250 million for student support. Additional support for undergraduate and graduate students is required at several faculties, colleges and schools.

UofT must also increase the availability and effectiveness of services to help students meet the challenge of its high academic standards. Expanded and enhanced writing labs and mathematics labs are required to ensure that students



## THE ACADEMIC PLAN: KEY PRIORITIES

**A Great Place  
to Learn and  
Conduct  
Research**  
20%

**Unrestricted  
Endowment**  
1%

**Great  
Professors**  
35%

**Great  
Students**  
15%

**Innovative  
Programs**  
29%

obtain the full benefit from their classroom experience.

Outside of the classroom, we must continue to increase access for people with disabilities, and add expanded child-care facilities to meet the needs of students with family obligations.

### INNOVATIVE PROGRAMS

Great research is integral to great teaching. We are reshaping our undergraduate programs by building on acclaimed pilot projects such as the First-Year Seminars and Research Initiatives Program. These give students opportunities to forge stronger relationships with top faculty and to conduct research projects under the supervision of senior professors.

UofT continues to bring great minds together to explore emerging fields. We are preparing to launch a series of innovative cooperative ventures in fields as diverse as international studies; bioengineering; human development; the effects of information technology on education, business and society; public policy and governance; and women's health.

### A GREAT PLACE TO LEARN AND CONDUCT RESEARCH

To achieve our full potential in the information age, we require selective capital investments. Many laboratories, libraries and classrooms require new equipment. Our focus is on increasing efficiency, creating new opportunities for collaboration and giving faculty and students the tools they need to do great work.



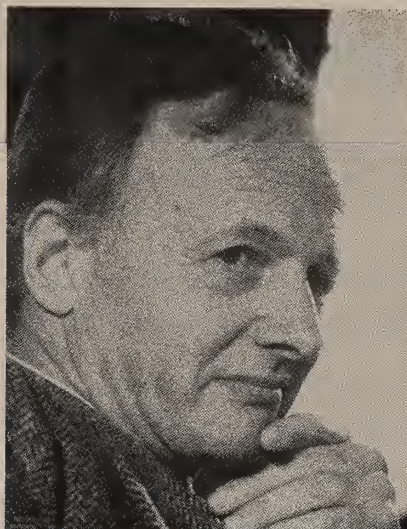
**SUJIT CHOUDHRY**

Award-winning UofT law graduate Sujit Choudhry articulated with the chief justice of the Supreme Court of Canada.



**CLAIRE ALLEYNE**

OISE/UT Registrar Claire Alleyne, a member of the university's staff since 1973, won the 1994 Chancellor's Award, which recognizes outstanding services by a UofT staff member.



**JOHN POLANYI**

Nobel Prize-winner and UofT chemistry professor John Polanyi is recognized for his research in molecular motions in chemical reactions.



**TED SALGADO, KWAI LI, VINITHA GENGATHARAN**

Ted Selgado is president of the Students' Administrative Council, UofT. Kwai Li is a director of the Association of Part-time Undergraduate Students, and Vinitha Gengatharan is involved in student government at UofT at Scarborough.

The Campaign provides an extraordinary opportunity for the University's friends to build exciting new partnerships with the federal and provincial governments. Campaign contributions will be used to lever support from the Canada Foundation for Innovation and the Ontario Research and Development Challenge Fund where applicable.

Major projects include digitizing our library holdings and enhancing computer facilities across the University; upgrading the laboratories in the Faculty of Applied Science and Engineering; and enhancing classrooms to incorporate computer-generated and audiovisual teaching.

The Campaign is also seeking support for three high-profile projects that strike at the heart of our focus on innovative teaching and research.

The Campaign's most ambitious project is a new complex to house one of the world's most acclaimed health sciences networks. The new Health Sciences Centre will consist of two buildings adjacent to the Medical Sciences Building. It will maximize the synergy of groundbreaking research and teaching in the health sciences, reflecting the relevant expertise of the Faculties of Medicine and Nursing. The Centre will support the University's aspirations toward multidisciplinary, international preeminence in health education, medical research and clinical care.

The enhancement of our physical sciences facilities is also a key priority. Chemistry in particular is undergoing a period of revolutionary transformation, and the facilities of the department—which is ranked at the top of its field internationally—must keep pace. Within this area, the Campaign's primary focus is on upgrading the Chemistry labs, where John Polanyi conducted his Nobel Prize-winning research, and where we are educating tomorrow's great scientists. Improved teaching and meeting facilities, and space dedicated to industrial partnerships are also key project components.

The Campaign is also seeking support to create the new Centre for International Studies. The new Centre will be both a facility—buildings and a library—and a group of graduate centres and graduate and undergraduate programs. By bringing together top faculty and providing state-of-the-art facilities, the Campaign will create a centre of international stature.

### A GREAT FUTURE

To achieve our academic goals, we have focused private sector support on our areas of greatest priority. But in a world where the pace of change is increasing, we must be able to address new needs as they emerge. We are seeking \$10 million in new unrestricted endowment funding. This support will enable the University to undertake strategic initiatives in response to new opportunities that emerge over the course of the coming century.

UNIVERSITY OF TORONTO  
**the campaign**





# Great Minds Great *Friends*

Hundreds of volunteers are actively working on the University's behalf. Their commitment reflects a growing consensus that building a stronger University of Toronto is a national priority.

## CAMPAIGN EXECUTIVE COMMITTEE

F. Anthony Comper,  
*Chair*

A. Charles Baillie

Claude T. Bissell, *President Emeritus*

Wendy M. Cecil-Cockwell

George E. Connell, *President Emeritus*

The Hon. William G. Davis,  
*Honorary Counsel*

Jon S. Dellandrea

John R. Evans, *President Emeritus*

The Hon. J. Trevor Eyton

Shari Graham Fell

Al Flood

Ira Gluskin

Bonnie Gottlieb

The Hon. Henry N.R. Jackman,  
*Chancellor*

Norman Jewison

Murray B. Koffler

Doris Lau

J. A. Ernest Morel

Peter Munk, *Chair,*  
*Uof T Foundation*

The Hon. David R. Peterson,  
*Honorary Counsel*

J. Robert S. Prichard, *President*

The Hon. Robert K. Rae,  
*Honorary Counsel*

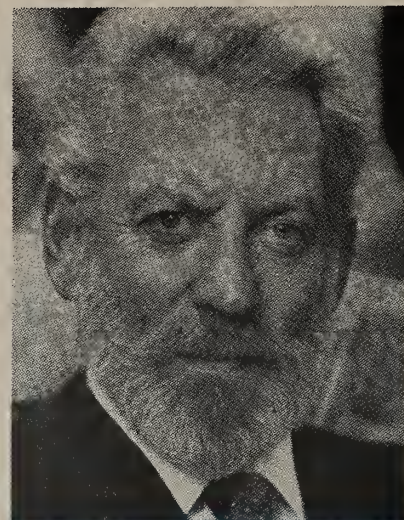
Joseph L. Rotman

Susan M. Scace

Lionel H. Schipper

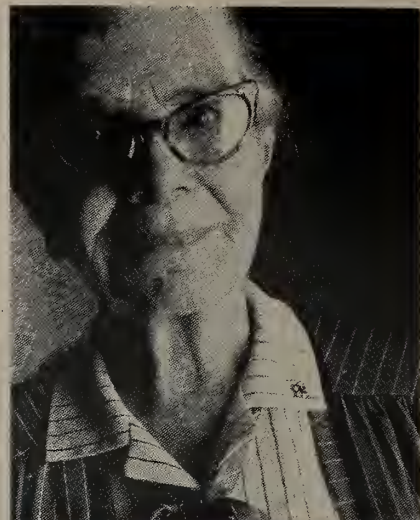
Richard E. Venn

Rose Wolfe, *Chancellor Emerita*



DONALD SUTHERLAND

Acclaimed internationally, Donald Sutherland has more than 90 film roles to his credit, from *Dirty Dozen* to *M\*A\*S\*H*, *Eye of the Needle*, Fellini's *Casanova*, Bertolucci's *1900*, and Redford's Oscar award-winning *Ordinary People*.



HELEN HOGG

World famous astronomer Helen Hogg (1905-1993) joined Uof T in 1936 and went on to become Professor Emerita in 1976. Asteroid 2917 was named Sawyer Hogg in her honour in 1984.

Faculty of Arts & Science

Paul H. O'Donoghue, *Chair*

Faculty of Dentistry

To be announced

Faculty of Forestry

To be announced

School of Graduate Studies

David M. Campbell, *Chair,*  
*Dean's Advisory Committee*

Faculty of Information Studies

To be announced

Faculty of Law

Maureen Kempston Darkes, *Co-Chair*  
Brian Levitt, *Co-Chair*

University of Toronto Library  
Donald R. Wilson, *Vice-Chair*

The Joseph L. Rotman  
School of Management  
John M. Cassaday, *Co-Chair*  
J. Spencer Lanthier, *Co-Chair*

Faculty of Medicine

Mark M. Tanz, *Chair, CRND*  
Lionel H. Schipper, *Vice-Chair, CRND*

Faculty of Music

Vern C. Heinrichs, *Honorary Chair*  
Elfrieda Heinrichs, *Honorary Chair*

Faculty of Nursing

To be announced

OISE/UT

The Hon. William G. Davis, *Co-Chair*  
John R. Evans, *Co-Chair*

Faculty of Pharmacy

The Hon. Douglas Frith, *Co-Chair*  
Donald Organ, *Co-Chair*  
David R. Bloom, *Honorary Chair*

School of Physical and  
Health Education

To be announced

Faculty of Social Work

Shari Graham Fell, *Chair*  
Martha Cohen, *Honorary Chair*

The Hon. Margaret Norrie McCain,  
*Honorary Chair*

The Hon. Dame Rosanna  
Wong Yick-ming, *Honorary Chair*

University of Toronto  
at Mississauga (Erindale)  
Ignat Kaneff, *Chair,*  
*Student Centre Campaign*

University of Toronto at Scarborough  
Rick Ferreira, *Chair*  
Betty Carr, *Vice-Chair*

Innis College  
Larry Wasser, *Honorary Chair*

New College  
To be announced

St. Michael's College  
Joseph Sorbara, *Chair*

Trinity College  
George Fierheller, *Chair*

University College  
C. Warren Goldring, *Honorary Chair*

Victoria University  
Garfield Emerson, *Chair*

Woodsworth College  
To be announced

Student Services  
To be announced

Transitional Year Programme  
To be announced

## THE GROUP OF 175

The year 2002 will be a landmark for UofT. Canada's leading research university will conclude the largest campaign in the nation's history, and will also mark its 175th anniversary. One hundred and seventy-five key leaders will help the University of Toronto reach that landmark by no less than transforming the face of philanthropy in Canada. They will be the Group of 175.

## EX OFFICIO MEMBERS

Susan Bloch-Nevitte

Michael Finlayson

Rivi Frankle

Tennys J.M. Hanson

Catherine McCauley

Heather Munroe-Blum

Adel S. Sedra

## CAMPAIGN CABINET

Faculty of Applied Science  
& Engineering

John Bahen, *Co-Chair*

C. William Daniel, *Co-Chair*

George Myhal, *Vice-Chair*

School of Architecture  
& Landscape Architecture

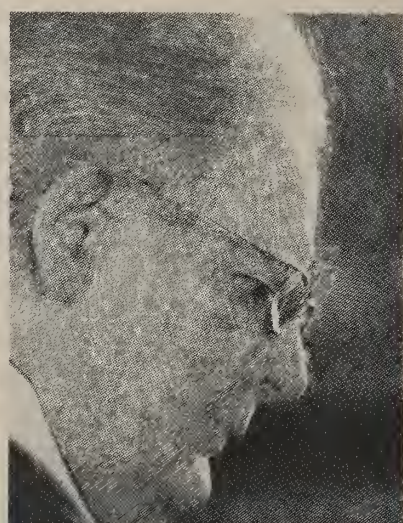
Keith Gillam, *Co-Chair*

Alf Tilbe, *Co-Chair*



JANICE STEIN

Uof T political science professor Janice Stein is an authority on conflict resolution and international relations, with an emphasis on the Middle East.



NORTHROP FRYE

A celebrated scholar, literary critic and commentator on Canadian society, Northrop Frye (1912-1991) graduated from Victoria College and was a professor of English there.

For more information about the Campaign for the University of Toronto, please contact Tennys Hanson, University Campaign Director, at (416) 978-4410. Information is also available through the Campaign line at (416) 978-UofT or 1-888-550-8055. Visit our web site at [www.uoftcampaign.com](http://www.uoftcampaign.com) or send an e-mail to [the.campaign@utoronto.ca](mailto:the.campaign@utoronto.ca)

UNIVERSITY OF TORONTO  
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# LIVE MUSIC \* OFFICIAL OPENING OF THE VISITORS CENTRE AT NOON \* AND A WHOLE LOT MORE

## Anatomy & Cell Biology

Learn about the microscopic structure of bone and the latest developments in bone research.

## Banting & Best Department of Medical Research

Interactive display commemorates discovery of insulin and presents current research.

## Biochemistry

Talk to staff and students about the science of living organisms.

## Biomedical Communications

Displays illustrate how students combine design theories with scientific information to create teaching materials.

## Biomedical Engineering

Learn about a field responsible for everything from artificial knees and hips to coronary bypass grafts.

## Cardiovascular Sciences Collaborative Program

Interdisciplinary program trains students to fight heart disease and stroke.

## Centre for Health Promotion

Discover how health is defined physically, mentally and spiritually.

## Centre for Sleep & Chronobiology

Marvel at the mysteries of sleep through research conducted on earth and in space.

## Clinical Sciences

Exhibit emphasizes link between research and understanding disease processes.

## Electron Microscopy

See tissue cells and viruses magnified thousands of times.

## Family & Community Medicine

Discover the department's continuing medical education programs and research projects.

## Gage Occupational & Environmental Health Unit

Participate in demonstrations of equipment that measures lung function and air quality.

## Health Administration

Try out "decision-making" software and learn about careers in health services management.

## Joint Centre for Bioethics

Partnership with several hospitals conducts research, delivers educational programs and supports clinical ethics activities.

## Laboratory Medicine & Pathobiology

Catch a display featuring opportunities for students and research in these fields.

## MD/PhD Program

For highly motivated students with superior research and academic potential.

## Medical Imaging

Learn how radiologists interpret X-ray images and see multimedia teaching in action.

## Medical Genetics & Microbiology

Talk to geneticists and molecular biologists and see real mutants and DNA.

## Neuroscience

See and hear your muscles' electrical activity and measure your reaction and movement time.

## Obstetrics & Gynaecology

Discover the future of reproductive treatment and try your hand at laparoscopic surgery.

## Occupational Therapy

Learn about a dynamic, fast-growing profession with challenging job opportunities world-wide.

## Oncology

See damaged genes and discover therapies designed to bypass or repair genetic errors.

## Ophthalmology/Eye Bank

Learn about the gift of sight and watch a video on corneal transplants.

## Otolaryngology

Captivating display explains "hidden sense" of balance and importance of inner ears to its well-being.

## Paediatrics

Check out display on adolescent medicine, featuring information on sex, drugs and eating disorders.



## Physical Therapy

Learn about prevention and alleviation of movement dysfunction.

## Physiology

Test your heart activity, observe living nerve cells and learn how you were born.

## Psychiatry

Experience an auditory hallucination and learn about mental illness and its treatment.

## Surgery

Try your hand at microsurgery and learn about the techniques of reconstructive plastic surgery.

## MOCK EMERGENCY 10:30 to 11:15 a.m.

Several apple-sized, metallic objects have been found all over campus. Although leaving crater-like depressions these "miniature meteoroids" have been found to pose no real threat to the university's population. Scientists could not predict just how disastrous the effects would be if a larger object were to fall from the sky ... *Medical Sciences Building*

## MUSIC

Join a tour, visit backstage, watch student performances and test your musicianship. MacMillan Singers perform Music of Brahms at St. Basil's at 8 p.m. *Edward Johnson Building*

## NURSING

Question faculty, students and graduates about

new programs and career opportunities. *Medical Sciences Building*

## OISE/UT

Information sessions at 11 a.m. and 2 p.m. *252 Bloor St. W.*

## PHARMACY

Ask staff and students about admission requirements and career opportunities. *Medical Sciences Building*

## SOCIAL WORK

Tour our renovated building, watch a video, participate in activities. *246 Bloor St. W.*

## SPECIAL PROGRAMS

### Aboriginal Student Support Services & Programs

Drop by First Nations House teepee to learn about programs and events. *Front campus*

## Housing Service

Gather information on residences, the housing complex for student families and the off-campus registry. *Information tent*

## International Student Centre

Discover services, programs and facilities to promote and support international education. *Information tent*

## Students' Administrative Council/Hangar

Take a tour, hang out at a student-run pub and enjoy a barbecue, a prize giveaway and live music. *12 Hart House Circle and 100 St. George St.*

## University Art Centre

Visit from noon to 4 p.m. to appreciate the university's permanent collection. *Laidlaw Wing, 15 King's College Circle*

## LIBRARIES

### Audio Visual Library

See classical cinema and award-winning documentaries or explore your body through interactive multimedia. *7 and 9 King's College Circle*

### Engineering Library

Visit display on environmental literature, get tips on recycling, view information on the Internet. *Sandford Fleming Building*

### Cheng Yu Tung East Asian Library

Tour East Asian Library, see demonstrations of Internet sites relating to China, Japan and Korea. *Roberts Library, 8th floor*

### Gerstein Science Information Centre

Visit Internet Cafe, see a demonstration of electronic test journals and find out about famous researchers. *7 and 9 King's College Circle*

### Petro Jacyk Central & East European Resource Centre

View direct Russian television programs, surf the Net, tour the centre. *Roberts Library, 8th floor*

### Preservation Services

See how brittle books are converted to electronic format to preserve them. *Roberts Library, 3rd floor*

### Roberts Library

Learn how to find library materials in the humanities and social sciences. *Corner of Harbord and St. George Streets*

### Thomas Fisher Rare Book Library

View international travelling exhibition about the library of Leander van Ess. *Corner of Harbord and St. George Streets*

## CAMPUS TOURS

Enjoy an informative, historical tour of campus, departing from the stairs at Simcoe Hall at 11 a.m. and 1 p.m. *27 King's College Circle*

## OINK, OINK HERE!

### The Children's Fair

OISE/UT presents a "farm-themed" day of activities including pony rides, face-painting, treats and more! *Front campus*

## INFORMATION TENT

Head here if you're feeling overwhelmed or lost. We'll point you in the right direction. *Front campus*

## VISITORS CENTRE OPENING

Official opening ceremony at 12 noon of this year-round facility to inform visitors and tourists. *25 King's College Circle*



# Survey Sheds Light on Physicians' Behaviour

BY CHRISTINA MARSHALL

A U OF T RESEARCHER'S SURVEY of almost 600 emergency physicians in Ontario has brought considerable public attention to a sensitive issue — sexual involvement of physicians with patients.

The recently published study revealed nine per cent of respondents reported knowing a colleague practising in the emergency department who had been sexually involved with a patient or former patient. The survey also revealed six per cent of respondents reported sexual involvement with a former patient.

Professor Howard Ovens of family and community medicine and the emergency services division at Mount Sinai Hospital and Joanne Permaul-Woods of family medicine at Mount Sinai Hospital co-authored the survey. It was conducted anonymously by mail in May 1995 and the results of the study, funded by U of T and Mount Sinai, were published in the Sept. 15 issue of the *Canadian Medical Association Journal*.

The publication outlines that of the six per cent of respondents reporting sexual involvement with a former patient, 25 per cent of them had met the patient in an emergency department. Respondents also reported that two-thirds of the encounters were initiated by the

patient and many resulted in long-term relationships and/or marriage.

The survey was conducted after Ovens identified a lack of literature addressing the issue of sexual involvement of emergency room physicians with patients. "There is a fair amount of literature about psychiatrists and psychologists and this issue, a smattering of articles involving other professional groups like family doctors and a few different specialty groups, but there is nothing about episodic care or emergency care anywhere," he said.

The article notes that the Ontario College of Physicians and Surgeons of Ontario stipulates that as a general rule, "the physician should not have sexual contact with a former patient for a period of one year... In some instances it may never be appropriate for a post-termination sexual relationship to develop. In others it may be unnecessary to wait for one year... for example, an emergency room physician who has treated a patient on one occasion." It also points out that college guidelines in other provinces are also unclear.

"What I hadn't anticipated was the size of the issue and the difficulties it posed for some people," Ovens said, referring to responses from emergency room physicians practising in small towns. Approximately 10 per cent of respondents commented on the

special problems of rural physicians. "The main issue was what do you do when you are in a small town and your professional circle really is the entire community."

Ovens, however, is concerned media have sensationalized the study's findings. In a Sept. 23 letter to *The Toronto Star* he explained that although the study revealed nine per cent of respondents reported knowing a colleague

practising in the emergency room who had been sexually involved with a patient or former patient, "it is likely that multiple reports referred to the same physician and this is a figure that cannot be used to estimate the number of physicians actually involved with patients."

With the study completed and initial media coverage behind him, Ovens reflected that "people need to read the article and think and

talk about these issues with friends and colleagues to form opinions of their own. Then hopefully this will be the start of discussion and debate that might lead to reconsideration of this issue with the college."

He added that if physicians are "doing things that are okay" they should not feel guilty. "On the other hand if it is not okay they should know that it is not okay."

## GOING LIKE HOT CAKES



U of T Police Service constables John Wilson and Catherine Cornes serve up a storm during a free pancake breakfast held Sept. 12 outside the Medical Sciences Building to raise money for the University of Toronto Food Bank. Faculty, staff and students donated \$488 to the cause.

JASON SCHWARTZ

**The U of T Bookstore**  
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**Mordecai Richler**  
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**Mon. Oct. 6th, 7:30 pm**  
 Convocation Hall, 31 King's College Circle.  
 Tickets \$5 / \$3 students & seniors. Come to the Bookstore or call: 978-7993.  
 Get a FREE ticket when you purchase *Barney's Version* or *Fall On Your Knees*.  
 Supported by Knopf Canada and Vintage Canada.

**Carole Corbeil**  
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*Visible Worlds*

**Dany Laferriere**  
*A Drifting Year*

**Tues., Oct. 7th, 7:30 pm**  
 The Rivoli (doors open 7 pm) 334 Queen St. W. (free.)

**The Large, the Small and the Human Mind**  
 an evening with the eminent physicist  
**Sir Roger Penrose**

**Fri., Oct. 10th, 7:30 pm. (free)**  
 OISE Auditorium 252 Bloor St. W. (St. George subway)

U of T Bookstore 214 College Street, Mon-Fri 9-6, Sat 10-5, Sun 12-5 Series 978-7989

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# BEHIND CLOSED DOORS

*U of T researchers gain access to Stalin's secrets*

By MICHAH RYNOR

FASCINATING THOUGH HER WORK IS Professor Lynn Viola of history is the first to admit that she's voluntarily surrounded herself with grief and sadness for the foreseeable future.

Under the auspices of the Stalin Era Research and Archives Project, Viola and her colleagues are working in the once-secret archives of the former Communist government of Russia and are among the few researchers in the world to have access to the files of the infamous KGB.

Viola is using these files to piece together the little-known history of the Russian peasants forced into the state agricultural collectivization system in the 1920s and 30s. During this period close to two million families were uprooted and sent to unpopulated areas in the Siberian gulags to work as cheap labour as well as to colonize these isolated parts of Russia. Totally unprepared for such a lifestyle and without the necessary tools for survival, hundreds died agonizing deaths. Epidemics were commonplace and living conditions dreadful.

Amazingly this shameful period under Stalin is well documented by the very bureaucrats and politicians responsible for these atrocities. "They filed extremely detailed reports describing both the economic life and the political mood of the 'special immigrants,' a euphemism used by the Stalinists to describe these unfortunate people," says Viola.

"I asked a senior Russian historian why there is so much paper on this and he said it was because many bureaucrats were terrified of the eventual consequences of these deportations and they wanted to make sure their involvement was explained. So we're left with a massive amount of material that's totally unexpected."



Reading these reports and statistics, Viola admits, can be harrowing. "As a historian you want to develop a kind of distance and dispassionate approach, but every once in a while I'm devastated by what I'm reading because it's just too horrible." She recalls one account of overcrowding in a church being used to store recent deportees. It gives precise details on how many grams of bread each person was allowed, how many men, women and children were sick and how many had died. One section describes how they were forced to eat and drink from the same buckets they used as toilets, "so you understand why epidemics were so rife," she says.

Viola believes it's important that the fate of the approxi-

mately five million deportees be told. "We always knew this had happened but it's only recently that we've been allowed to look at the documents from various levels of government and the secret police that illustrate the day-to-day directives and orders."

The national and international scholars who are now permitted to read the files work under very trying conditions. "Researchers in the Communist party archives in Moscow were forced out for a few weeks because the electric bills hadn't been paid and the archives owed tens of thousands of dollars," says Viola. Reports of elevators going unrepaired for years, artifacts disintegrating from lack of proper care and storage and some archives simply closing their doors for good are commonplace in this economically depressed country.

Not everyone is happy with the research that Viola and her colleagues are doing, however. Viola has found many Communists and

Stalinists resent these documents being published and feel that it's an attack on their proud history. On the other hand her work doesn't elicit the same excitement that it would have in years past. "Where we used to have a built-in mass audience in the Soviet Union for books generated from this kind of research, popular culture from the West now presides. We're finding that we can't compete with Stephen King," she says.

The Stalin Era Archives and Research Project, based at the Centre for Russian and East European Studies, is supported by grant from the Social Sciences and Humanities Research Council.

KATHY BOAKE

## The Twenty-second Annual Book Sale

The Friends of the Library, Trinity College

October 17-21, 1997

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Friday, October 17  
6 pm - 10 pm  
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(Admission \$2.00)

Saturday, October 18  
10 am - 9 pm

Sunday, October 19  
noon - 9 pm

Monday, October 20  
10 am - 9 pm

Tuesday, October 21  
10 am - 9 pm  
(No charge)



## COMMITTEE

### MEMORANDUM OF AGREEMENT

The recent settlement between the Governing Council and the Faculty Association mandated that a Committee be set up to inquire into, review, and report to the University community, UTFA Council and Governing Council on the advisability of amending the Memorandum of Agreement to include a provision making mandatory dues payment to UTFA (or equivalent payment to an agreed upon charity; thus membership in UTFA would remain voluntary) for new faculty members and librarians who join the University as of July 1, 1998.

The committee is hereby soliciting University-wide opinion on this proposal. Those who would like to express an opinion on this matter are asked to write to either of the co-Chairs of the Committee:

Professor Adel Sedra  
Vice-President and Provost  
Simcoe Hall  
University of Toronto

Professor Lloyd Gerson  
Vice-President, Salary,  
Benefits & Pensions  
UTFA  
419 - 720 Spadina Avenue  
University of Toronto

THE MEMBERS OF THE COMMITTEE ARE:

Professor Donald Dewees  
Professor Lloyd Gerson  
Professor William Graham  
Professor Brian Langille  
Professor Alfred Miller  
Professor Adel Sedra

Replies should be received by October 10, 1997

## 1997 Samuel James Stubbs Lecture

Jonathan Barnes  
Dept. of Philosophy  
University of Geneva

### Proof and Faith in Greek Philosophy

Wednesday, October 1, 1997

4:30 p.m., Room 140, University College  
15 King's College Circle, University of Toronto

Members of the staff, students and the public are cordially invited



## BOOKS



The following are books by U of T staff. Where there is multiple authorship or editorship, staff are indicated by an asterisk.

**Great Dames**, edited by Elspeth Cameron (University of Toronto Press; 340 pages; \$50 cloth, \$19.95 paper). This is a collection of short biographical sketches, memoirs and essays about Canadian women of the 20th century from all walks of life. The 15 essays represent many theoretical, autobiographical and biographical approaches to feminist biography including chronological narrative, thematic exploration, multiple biography, conversations between biographer and subject, interviews, diaries and fictional accounts.

**The Drama of Our Past: Major Plays from 19th-Century Quebec**, by Leonard F. Doucette (University of Toronto Press; 300 pages; \$60 cloth, \$24.95 paper). Although the general evolution of French-Canadian theatre in the 19th century has been described previously in some detail the plays themselves remain largely inaccessible, especially in English. This book presents in English for the first time five full-length plays and five playlets that together cover the major genres and themes treated by local dramatists throughout the country.

**Looking for Old Ontario**, by Thomas F. McIlwraith (University of Toronto Press; 360 pages; \$55 cloth, \$19.95 paper). Every year thousands of tourists drive along country roads, past farmyards and through hamlets en route to popular vacation spots. This book shows that many destinations are closer at hand than one might imagine and invites travellers to rediscover familiar countryside landmarks by "reading" them as chapters in a rich historical narrative.

**Paths of Desire: Images of Exploration and Mapping in Canadian Women's Writings**, Marlene Goldman (University of Toronto Press; 314 pages; \$45, \$19.95 paper). Previous studies on exploration and mapping images in literature have concentrated on the issue of anti-colonialism. Few critics have traced the influence of postmodern and feminist theories on writings by Canadian women authors. This book posits intriguing connections between the act of map-making, postmodern theory and female identity in experimental works of five Canadian women writers — Audrey Thomas, Susan Swann, Daphne Marlatt, Aritha van Herk and Jane Urquhart.

**Making Good: Law and Moral Regulation in Canada, 1867-1939**, by Carolyn Strange\* and Tina Loo (University of Toronto Press; 150 pages; \$45 cloth, \$12.95 paper). Looking at the changing relationship between law and morality in Canada from Confederation to the onset of the Second World War, the book examines both the major institutions that patrolled morality — the Department of Indian Affairs, the Ministry of Justice and the North West Mounted Police — and the agencies that worked at local levels. It also looks at many of the acts of resistance to moral ordinances, showing that not all Canadians share the same vision of goodness.

**The Olive-Tree Bed and Other Quests**, by M. Owen Lee (University of Toronto Press;

Robson Classical Lectures, 4; 175 pages; \$50 cloth, \$18.95 paper). *The Olive-Tree Bed and Other Quests* is Owen Lee's study of the quest myth as it occurs in Homer's *Odyssey*, Virgil's *Aeneid*, Wagner's *Parsifal* and Goethe's *Faust*. The questing for the olive-tree bed, the Golden Bough, the Holy Grail and the Eternal Feminine is at the deepest level the hero's search to find the meaning in his life. Though the lectures address critical problems in the four works and draw to some extent on Jungian insights this volume is also a personal memoir written in the beltristic style for which the author has become known.

**Who Elected the Bankers? Surveillance and Control in the World Economy**, by Louis W. Pauly (Cornell University Press;

184 pages; \$25 US). The book locates the main sources of global financial integration in the policies of leading governments. At its core lies a historical examination of the effort to cope with consequent challenges to governing authority in a world still mainly organized around the institution of the politically autonomous state. In this connection the book brings to light new parallels between the long-forgotten economic work of the League of Nations and the evolving mandate of the International Monetary Fund.

**Jewish Philosophy and the Crisis of Modernity: Essays and Lectures in Modern Jewish Thought**, by Leo Strauss, edited with an introduction by Kenneth Hart Green (State University of New York Press; 505 pages; \$74.50 US cloth,

\$24.95 US paper). This book brings together the major essays and lectures of Leo Strauss in the field of modern Jewish thought. It contains some of his most famous published writings as well as significant writings previously unpublished. Spanning almost 30 years of continuously deepening reflection the book presents the full range of Strauss' contributions as a modern Jewish thinker.

**Nuns as Artists: The Visual Culture of a Female Convent**, by Jeffrey Hamburger (University of California Press; 318 pages; \$55 US). This book explores the place of images and image making in the spirituality of medieval nuns during the later Middle Ages. Working from a previously unknown group of devotional drawings made by a Benedictine nun for her cloistered companions, the book discusses in detail the distinctive visual culture of female communities. Setting the drawings and related imagery — manuscript illumination, prints, textiles and metalwork — within the context of religious life and reform in late medieval Germany, it reconstructs the artistic, literary and institutional traditions that shaped the lives of cloistered women.

**Retrial Queues**, Guennadi Falin and James G.C. Templeton\* (Chapman & Hall, Monographs on Statistics & Applied Probability Series, Volume 75; 328 pages; \$64.95 US). This book describes from a unified point of view basic methods of analysis and the most important results of the theory of retrial queues. It includes analysis of single-server retrial queues (stationary and transient distribution of the number in the system, busy periods, waiting time processes, limit theorems, stochastic inequalities, traffic measurement) and multiserver retrial queues (ergodicity, explicit formulae, algorithmic solutions, limit theorems, approximations). The book then moves on to more advanced single-server and multiserver retrial queues.

**Calculus and Analytical Mechanics in the Age of Enlightenment**, by Craig G. Fraser (Ashgate, Variorum Collected Studies Series; 320 pages; £52.50). This book examines related developments in the history of 18th-century exact science, focusing on the writings of such major continental figures as Jean d'Alembert, Leonhard Euler and Joseph Louis Lagrange. The book provides a detailed historical and critical study of conceptual change involving fundamental links between pure and applied mathematics.

## ON THE OTHER HAND

BY NICHOLAS PASHLEY

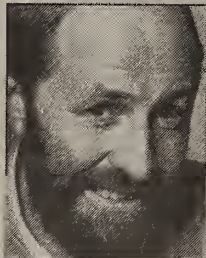
### BUTT SERIOUSLY . . .

IT IS CUSTOMARY IN THIS SEPTEMBER column to note that the incoming students seem to get younger every year. This has never been truer than in 1997. Mere zygotes, some of them, though they all seem very nice. It is also customary to welcome back those of you who go away for the summer. Do they still serve a decent *soupe de poisson* in the Cours Mirabeau?

You didn't miss much here. The threatened scourge of toplessness did not sweep the province, despite my efforts. It was revealed that Ontario Hydro has been run by some weird cult since heaven knows when. The Morrissey Tavern (b. 1863), the Yonge Street taproom in which Mrs. On-the-Other-Hand and I became an item many years ago, closed its doors forever, to be replaced by condos. It is a sure sign of an economy on the mend when civic landmarks are being torn down to make way for condos. It'll be Knox College next. (I'm imagining the ads for Elegant Presbyterian Townhomes.)

Elsewhere the world's oldest person died in France, a lady who had not been a zygote since the Morrissey Tavern was a pup. Rather a lot of people died in early September but, just as many people don't know that Aldous Huxley is dead because he died the same day as JFK, people will never know that Sir Georg Solti, Victor Frankl, Hans Eysenck and Burgess Meredith died in the immediate wake of a famous princess and a noted nun.

Here in Toronto we all watched the funeral of the Princess of Wales. Opinions differed over the performance of Elton John and his revamped song. Some felt he (or it) were inappropriate and/or sappy. To those people I would simply say: it might have been worse. It might have been Neil Diamond. "It was announced today that singer Neil Diamond will be paying tribute to Diana at



this Saturday's funeral, singing a reworked version of his hit song *Cracklin' Rosie*."

The funerals of Diana and Mother Teresa — and I'm getting to the point at last — were at least uncontroversial in the sense that neither was sponsored by a tobacco company, making them unique in the summer of 1997. As you

probably know, the federal government is banning all forms of tobacco advertising, thus threatening the future of golf and tennis tournaments, car races, jazz festivals and practically every other form of human activity in Canada.

Are the tobacco companies really patrons as they themselves suggest or are they just sneaky? There are rumours, for instance, that there is really no such person as Joseph L. Rotman, that the Joseph L. Rotman Centre for Management on this campus is merely a clever subliminal campaign to promote Rothman products. Rotman, Rothman: who'd notice? (And did I just imagine the planting of hedges outside the Benson Building?)

There is concern that no one else will take up the slack left by the tobacco superpowers. But why do these companies sponsor cultural events? One reason and one reason only: they are not permitted to advertise on television. Just think. If the banks were banned from advertising on TV, they'd have to spend all that money on useful things like tennis tournaments instead of offending baby boomers with obnoxious Bob Dylan ripoffs. Wouldn't you feel better about McCain products if you attended the McCain Jazz Festival rather than watching their uniformly awful TV commercials?

Let's ban all bad television advertising. It might mean less television but who could be against that? It'll get us out of the house, if nothing else. I'll see you at the Norwich Union Theatre Festival.



## LETTERS



### UTFA RESPONDING TO MEMBERS' CONCERNS

Professor Furedy appears to believe that the faculty association rejected certification once and for all two decades ago and is out of order to raise the issue again (*De facto* certification, July 21). On the contrary, the association, as the organ of its membership, must respond to its concerns. A large majority of members present at a recent general meeting asked the executive to investigate the mechanism and merits of certification. The executive, rightly, has undertaken to do this.

While unionization is anathema to some colleagues, the number willing to consider it is sufficiently great to warrant an informed debate in the near future. My opinion is that it would be a most regrettable step, but an appropriate one in the event of serious deterioration in relations between the faculty and the administration. The debate will no doubt be vigorous but certification will occur only if a majority of the members of the potential bargaining unit vote for it.

It is also not unreasonable to consider compulsory payment of dues to UTFA by all faculty members, although I agree with John Furedy that the question should

not have been introduced, apparently out of the blue, at the end of the recent salary and benefits negotiations. Some members of UTFA see it as an issue of fairness: the association negotiates on behalf of all faculty members but the costs of these negotiations are borne by a minority of the beneficiaries. One has only to compare the recent settlement with what the administrative staff had to settle for in 1996 and what was in the provost's budget to realize that the efforts of UTFA's negotiators have put a great deal more money in faculty pockets, both now and after retirement. And we should not forget that the negotiators had the unanimous support of UTFA council, which represents the entire membership.

Several years ago, outraged by an action of UTFA council, I successfully ran to be my department's representative. Becoming involved in UTFA has made me appreciate the incredible time and energy invested by certain colleagues to guard faculty interests. UTFA councillors are sensitive to the concerns of their constituents and willing to engage in genuine debate about difficult issues. The compulsory dues question promises to be one of these.

In my experience reasons for not joining UTFA range from the

frivolous to the principled. In some cases it is pure lassitude. Having members now opt in instead of opt out as formerly has adversely affected the rolls. Some of my colleagues have no particular objection to UTFA but never seem to get around to joining. Others sneer at it as a collection of failed academics unworthy of their attention. Some see it as another layer of bureaucracy and governance best avoided. More honest ones acknowledge that the benefits accrue whether or not they belong so they may as well save their money. A few demur because they feel that UTFA does not represent them. Some see it as an emanation of the looney left or (believe it or not!) a tool of the administration. Virtually none of this holds water.

In this context some UTFA members are tempted by compulsory dues. It is in order to seek out the mind of the membership on this but we need UTFA council's approval to proceed farther. It is quite true that UTFA contains individuals zealous to certify and impose dues on everyone. But Professor Furedy will find that most councillors are not inclined to be railroaded but will rather seek the view of their constituents and engage in careful and

substantive debate. I hope that he will reconsider his membership status.

ED BARBEAU  
MATHEMATICS

### ELECTRONIC BOARD EXISTS

In response to Alan Latta's letter in the June 9 issue of *The Bulletin* concerning the need for a faculty electronic bulletin board: we have the answer! TEACHCOM was launched in the fall of 1993 as part of a Cadillac-Fairview grant to the University of Toronto Library System (UTL) to provide an electronic discussion list for all members of the university's TEACHing COMMunity — faculty, librarians, tutors and teaching assistants as well as other interested parties. It has been grossly underused in recent months and could certainly be employed to address concerns such as those raised by Professor Latta.

TEACHCOM will be undergoing a facelift this fall; an advisory committee has been established to determine what changes are needed. In addition to ourselves, committee members include Professor John

Browne (provostial adviser on undergraduate education and principal, Innis College), Professor Corey Goldman (biology), Richard Hydal (UTL Information Technology Department and TEACHCOM co-owner), Sophia Kaszuba (UTL Information Technology Department), Professor Stefan Mochnacki (astronomy) and, most recently, Professor Latta himself! In the interim we invite both new and long-time subscribers to contact us (on or off list) with their ideas, comments and suggestions for improvement.

To join TEACHCOM, send the following message to [majordomo@library.utoronto.ca](mailto:majordomo@library.utoronto.ca): subscribe TEACHCOM your name.

As soon as you receive a reply from majordomo, informing you that your name has been added to the list, you will begin to receive messages from, and can post messages of your own to, [teachcom@vax.library.utoronto.ca](mailto:teachcom@vax.library.utoronto.ca).

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SUE EASUN  
FACULTY OF INFORMATION STUDIES

## SPOTLIGHT ON RESEARCH

### A STUDY IN GREY AREAS

#### Treating depression

An effective way to prevent recurrence of depression in the elderly is to continue antidepressant therapy for at least two years, according to a recent study in *The British Journal of Psychiatry*.

"Our study shows that when antidepressant treatment is continued at full dose for at least two years, three-quarters of the patients remain free of depression," says the study's principal investigator Professor Alastair Flint of psychiatry and a geriatric psychiatrist at the Toronto Hospital. "This result is much better than previous studies that did not consistently maintain antidepressant treatment for two years."

The researchers examined 84 elderly patients who responded to treatment of an acute episode of depression with Nortriptyline or Phenelzine and were maintained on the antidepressant medication for two years. Using a statistical technique called survival analysis, the investigators found the probability a patient in the study remained free of depression was 74 per cent. Of those that relapsed, 71 per cent were responsive to a change in their antidepressant therapy.

The study also revealed two

indicators of whether an elderly person would likely have a recurrence of depression: the more severe a person's depression at the time the index assessment was done, the more likely the individual would experience a recurrence; and people who took longer to respond were more likely to have a recurrence, notes Flint.

In the community about three per cent of elderly people will experience an episode of major depression and up to 15 per cent will have clinically significant symptoms of depression, explains Flint, who adds that the rate of major depression in community-dwelling elderly is similar to the rate in younger adults.

Christina Marshall

#### Grandparents take care

More than 10 per cent of grandparents in the United States have had primary responsibility for raising a grandchild for a period of six months, and typically much longer, says Professor Esme Fuller-Thomson of social work. The incidence in Canada, however, is likely lower.

Fuller-Thomson and two colleagues from the University of California at Berkeley studied the incidence in the U.S. of

grandparents raising grandchildren. Their study was published in the June issue of *The Gerontologist*, the journal of the Gerontological Society of America. "Grandparents raising grandchildren is a much more common occurrence than expected," says Fuller-Thomson. "It's an issue that policy-makers will have to start paying attention to."

While the study does not focus on the "lost" middle generation, other studies have found that substance abuse, teen pregnancy, AIDS, incarceration, emotional problems and parental death contribute to this phenomenon. Since Canada has lower incarceration, teen pregnancy and AIDS rates, it is reasonable to assume that custodial grandparenting statistics in this country are also lower, Fuller-Thomson says.

The researchers analysed data in the U.S. National Survey of Families and Households, conducted by the University of Wisconsin in 1992-94. Of the 10,000 respondents, 3,477 reported having one or more grandchildren. Of those, about 11 per cent had primary responsibility for raising a grandchild for a period of six months or more while one in five custodial grandparents took care of a

grandchild for 10 or more years. Although grandparents raising grandchildren cuts across gender, class and ethnic groups, the study found that single women, African Americans and those with low incomes were over-represented.

The study was funded by the Commonwealth Fund, a New York City-based national foundation that undertakes independent research on health and social issues.

Jane Stirling

#### Effective native policing

More consultation with aboriginal community members is necessary if Ontario is to ensure that police governance of First Nations reflects the needs of those communities, says Professor Philip Stenning of the Centre of Criminology.

Stenning conducted a comprehensive study of policing arrangements and their effectiveness in Ontario's 129 First Nations communities in the early 1990s. In his book *Police Governance in First Nations in Ontario*, Stenning says that although Ontario is moving in the right direction towards autonomous indigenous police services there is still a long way to go. He notes that policing has been dominated by federal and provincial government interests

and that First Nations community members have not been sufficiently consulted to create policing services that are culturally and politically suitable for the reserves.

"There has been too much dependence on outside non-native experts to develop these services," says Stenning. "The idea that community members should be consulted in detail about their community's policing needs has not always been acted upon with sufficient enthusiasm by the federal and provincial governments or even First Nations leaders for political and economic reasons."

Stenning explains that this often results in "native clones" of non-native police forces. "In negotiations with Aboriginal Peoples the federal and provincial governments have to resist the temptation to impose their predetermined views of how policing services should be run if these services are to be effective," he says.

Policing arrangements between governments and First Nations communities range from indigenous police services in the community to aboriginal police services run through the Ontario Provincial Police. The research was funded by the Aboriginal Policing Directorate of the federal Ministry of the Solicitor General.



# EVENTS



## LECTURES

### What's the Buzz about 3D Graphics?

**TUESDAY, SEPTEMBER 30**  
David Blythe, Silicon Graphics. 1105 Sandford Fleming Building. 11 a.m. *Computer Science and CITO*

### Understanding the Aztec Human Sacrifice.

**WEDNESDAY, OCTOBER 1**  
Patricia Rieff Anawalt, University of California at Los Angeles. 179 University College. 4:15 p.m. *Archaeological Institute of America, Toronto Society*

### Changing Arguments.

**FRIDAY, OCTOBER 3**  
Prof. Jonathan Barnes, University of Geneva; Mary White memorial lecture. George Ignatieff Theatre, 15 Devonshire Place. 4:30 p.m. *Trinity*

### Aging and Memory.

**SUNDAY, OCTOBER 5**  
Profs. Fergus Craik, psychology, and Cheryl Grady, psychiatry and psychology. Abe Posluns Auditorium, Jewish Home for the Aged, Baycrest Centre for Geriatric Care, 3560 Bathurst St. 2 p.m. *Baycrest Centre for Geriatric Care*

### Deep Blue: IBM's Massively Parallel Chess Machine.

**TUESDAY, OCTOBER 7**  
Gabriel Silberman, IBM Centre for Advanced Studies. 1105 Sandford Fleming Building. 11 a.m. *KMDI and Computer Science*

### Making Good: Tragedy, Creation and Happy Endings.

**TUESDAY, OCTOBER 7 AND WEDNESDAY, OCTOBER 8**  
Helen Oppenheimer, writer on ethics and philosophical theology; Larkin-Stuart lectures. George Ignatieff Theatre, 15 Devonshire Place. 8 p.m. *Trinity and St. Thomas' Anglican Church*

### Restorative Justice: From First Nations' Healing Circles to the Regulation of Corporate Crime.

**WEDNESDAY, OCTOBER 8**  
Prof. John Braithwaite, Australian National University. 205 Claude T. Bissell Building, 140 St. George St. *Woodsworth and Criminology*

### TeenNet: Engaging Youth in Health Promotion via the Internet.

**THURSDAY, OCTOBER 9**  
Prof. Harvey Skinner and Meg Morrison, community health. 105 Claude T. Bissell Building, 140 St. George St. 4 to 6 p.m. *KMDI*

## COLLOQUIA

### Challenges in Graduate Education.

**TUESDAY, SEPTEMBER 30**  
School of Graduate Studies 75th anniversary colloquia, in conjunction with Great Minds Week. Panel discussions: Challenges in the Sciences, 2:15 to 3:45 p.m.; Challenges in the Humanities & Social Sciences, 4:15 to 5:30 p.m. 108 Koffler Institute for Pharmacy Management, *SGS*

### Virtue Ethics.

**THURSDAY, OCTOBER 2**  
Prof. James Griffin, University of Oxford. 179 University College. 4 p.m. *Philosophy*

### SO(5): A Unified Theory of Antiferromagnetism and Superconductivity.

**THURSDAY, OCTOBER 2**  
Prof. Catherine Kallin, McMaster

University. 102 McLennan Physical Laboratories. 4:10 p.m. *Physics*

### CVD of Oxides, Metals and Metallic Oxides: Correlating Chemical Reactivity to Film Composition and Structure.

**FRIDAY, OCTOBER 3**  
Prof. Wayne Gladfelter, University of Minnesota. 158 Lash Miller Chemical Laboratories. 3:30 p.m. *Chemistry*

### Do Neutrino Oscillations Exist? Maybe.

**THURSDAY, OCTOBER 9**  
Maury Goodman, Argonne National Laboratory, Illinois. 102 McLennan Physical Laboratories. 4:10 p.m. *Physics*

### Just How Much Lab Can We Put on a Chip?

**FRIDAY, OCTOBER 10**  
Prof. Jed Harrison, University of Alberta. 158 Lash Miller Chemical Laboratories. 3:30 p.m. *Chemistry*



## SEMINARS

### The Impact of Structural Adjustment on the Labour Market in Peru.

**WEDNESDAY, OCTOBER 1**  
Jaime Saavedra, Grupo de Analisis para el Desarrollo, Lima. Conference room, Centre for International Studies, 8th floor, 252 Bloor St. W. 4 to 6 p.m. *CIS*

### Distribution of Wealth.

**WEDNESDAY, OCTOBER 1**  
Neil Brooks, Osgoode Hall Law School, York University; Linda McQuaig, journalist and author; and Jim Stanford, Canadian Auto Workers; Public Good or Private Greed? Building a Democratic Society series. Innis College Town Hall. 7:30 to 9:30 p.m. *Progressive Academic-Activist Collective, Innis College Environmental Studies Program, OPIRG and CUPE, Local 3902*

### In Situ Visualization: Powerful Experimental Approach for Current Biology.

**FRIDAY, OCTOBER 3**  
Jacqui Shykoff, Université Paris-Sud 3127 South Building, Erindale College. 12 noon. *Erindale Biology*

### NAFTA, Environmental Regulation and Canadian Competitiveness.

**FRIDAY, OCTOBER 3**  
Prof. Alan Rugman, Rotman School of Management, Prof. John Kirton, political science, and Julie Soloway, Faculty of Law. Conference room, Centre for International Studies, 8th floor, 252 Bloor St. W. 12 noon to 2 p.m. *CIS*

### La Crise de la culture au XX<sup>ème</sup> siècle: littérature, psychanalyse, histoire.

**MONDAYS AND TUESDAYS, OCTOBER 6 TO OCTOBER 28**  
Prof. Julia Kristeva, Université Paris 7 - Denis Diderot. 202 Teeff Hall, St. Michael's College. 12 noon to 2 p.m. *French and Comparative Literature*

### Male Feminism as Oxymoron.

**MONDAY, OCTOBER 6**  
Prof. David Kahane, University of Alberta. 3050 Sidney Smith Hall. 2 to 4 p.m. *Political Science*

### Notch Signalling in Mice.

**WEDNESDAY, OCTOBER 8**  
Tom Gridley, Jackson Laboratory. 968 Mt. Sinai Hospital. 12 noon. *Samuel Lunenfeld Research Institute*

### Strategies for Improving the Education of Health Professionals in Aging.

**WEDNESDAY, OCTOBER 8**  
Prof. A.S. Macpherson, McMaster University, visiting professor 1997-98.

Suite 106, 222 College St. 12:10 to 1:30 p.m. *Human Development, Life Course & Aging*

### The Politics of Chronic Fatigue.

**THURSDAY, OCTOBER 9**  
Prof. Elaine Showalter, Princeton University; Hannah seminar in the history of medicine. Great Hall, 88 College St. 4 to 6 p.m. *History of Medicine*

### Recent Developments and Issues in University-Government Relations.

**THURSDAY, OCTOBER 9**  
Prof. Robert Berdahl, University of Maryland. Room 4-411, OISE/UT, 252 Bloor St. W. 3 to 5 p.m. *OISE/UT*

### External Conditionality, Local Ownership and Development.

**FRIDAY, OCTOBER 10**  
Prof. Gerald Helleiner, economics; Emergent Perspectives in "Development" Strategy series. Conference room, Centre for International Studies, 8th floor, 252 Bloor St. W. 12 noon to 2 p.m. *CIS*

### Ethical Issues in Reducing Bar Violence.

**TUESDAY, OCTOBER 14**  
Kate Graham, Addiction Research Foundation; Meet the Researchers series. Meeting Centre, Addiction Research Foundation, 33 Russell St. 4:30 p.m. *UTRS and ARF*

### The War on the Poor: Welfare Policy.

**WEDNESDAY, OCTOBER 15**  
Josephine Grey, Low Income Families Together, and Nancy Vandenplatts, Scarborough Community Legal Services. Innis College Town Hall. 7:30 to 9:30 p.m. *Progressive Academic-Activist Collective, Innis College Environmental Studies Program, OPIRG and CUPE, Local 3902*

## MEETINGS & CONFERENCES

### University Affairs Board.

**TUESDAY, SEPTEMBER 30**  
Council Chamber, Simcoe Hall. 4:30 p.m.

### Academic Board.

**THURSDAY, OCTOBER 9**  
Council Chamber, Simcoe Hall. 4:15 p.m.

## MUSIC

### FACULTY OF MUSIC EDWARD JOHNSON BUILDING

#### Thursday Noon Series.

**THURSDAY, OCTOBER 2**  
Faculty Woodwind Quintet: Douglas Stewart, flute; Clare Scholtz, oboe; Stephen Pierre, clarinet; Kathleen McLean, bassoon; Joan Watson, horn. Walter Hall. 12:10 p.m.

**THURSDAY, OCTOBER 9**  
Recent works by student composers. Walter Hall 12:10 p.m.

### Music of Brahms.

**SATURDAY, OCTOBER 4**  
MacMillan Singers, Doreen Rao, conductor; U of T Concert Choir, Lori-Anne Dolloff, conductor. St. Basil's Church, 50 St. Joseph St. 8 p.m. Tickets \$5.

### Sharing the Voices: A Gala Choral Celebration.

**SUNDAY, OCTOBER 5**  
Featuring the Elmer Iseler Singers, Elmer Iseler, conductor; MacMillan Singers and U of T Symphony Chorus, Doreen Rao and Elmer Iseler, conductors; in conjunction with Great Minds Week. St. Basil's Church, 50 St. Joseph St. 2 p.m.

### Small Jazz Ensembles.

**WEDNESDAYS, OCTOBER 8 AND 15**  
Favourite standards and student arrangements and compositions. Walter Hall. 8 p.m.

### HART HOUSE Toronto Consort.

**THURSDAY, OCTOBER 2**  
A Woman's Life, multimedia salute to women's music from the Middle Ages and Renaissance; John and Lois Dove memorial concert, in conjunction with Great Minds Week. Hart House Theatre. 8 p.m. Tickets \$10, students and seniors \$5.

### KNOX COLLEGE Baroque Concert.

**FRIDAY, OCTOBER 3**  
Linda Melsted, violin, and Charlotte Nediger, harpsichord. Knox College Chapel. 8 p.m. Tickets \$10, students and seniors \$6.



## PLAYS & READINGS

### Design for Living: A Comedy in Three Acts.

**THURSDAY, OCTOBER 2 TO SATURDAY, OCTOBER 4**  
By Noel Coward; directed by Sarah Banani. George Ignatieff Theatre, 15 Devonshire Place. 8 p.m. except Saturday 2 and 8 p.m. Tickets \$7, students \$5. Reservations: 978-2651.

## EXHIBITIONS

### GARDINER MUSEUM OF CERAMIC ART Recent Work.

**TO SEPTEMBER 30**  
Kayo O'Young, ceramic artist. Gardiner Shop Gallery.

### The Quest for Simplicity.

**OCTOBER 5 TO OCTOBER 29**  
Eric Wong, high-fired functional stoneware pieces. Gardiner Shop Gallery.

### White on White.

**TO FEBRUARY 8**  
Featuring 20 Canadian artists from coast to coast. Main floor. Hours: Monday to Saturday, 10 a.m. to 5 p.m.; Tuesday, to 8 p.m.; Sunday, 11 a.m. to 5 p.m.

### JUSTINA M. BARNICKE GALLERY

#### HART HOUSE

#### TO OCTOBER 4

#### Every Damn Tree.

Selections from the Hart House Permanent Collection. East Gallery.

#### Works on Paper.

Selections from the Hart House Permanent Collection. West Gallery.

#### OCTOBER 9 TO NOVEMBER 6

#### Field Work.

Gary Evans, oil paintings. East Gallery.

#### Botanikos/Ego Receiver.

Giuseppe Di Leo, drawings and watercolours. West Gallery. Gallery hours: Monday to Friday, 11 a.m. to 7 p.m.; Saturday, 1 to 4 p.m.

### NEWMAN CENTRE Explorations in Media.

#### TO OCTOBER 6

Unusual and very original works of art. Ground floor. Hours: Monday to Friday, 9 a.m. to 5 p.m.

### THOMAS FISHER RARE BOOK LIBRARY

"so precious a foundation": The Library of Leander van Ess at the Burke Library of Union Theological Seminary in the City of New York.

#### TO DECEMBER 19

Medieval and later manuscripts, incunabula and printed books from the 16th to the 19th centuries. Hours: Monday to Friday, 9 a.m. to 5 p.m.

### UNIVERSITY OF TORONTO ART CENTRE

#### Will Gorliz: German Version of the Three Essays Trilogy.

##### TO DECEMBER 19

Seventeen-piece work in oil pastel over photocopied text pages from the original German version of Freud's *Three Essays on the Theory of Human Sexuality*, recent acquisition of the art centre. Boardroom space. Hours: Tuesday and Friday, 11 a.m. to 4 p.m.; Wednesday and Thursday, 11 a.m. to 7 p.m.; Saturday, 12 noon to 4 p.m.

### ROBARTS LIBRARY Brazilian Artists: Expressions on Silk.

#### OCTOBER 8 TO OCTOBER 30

Nine Brazilian artists work on silk; in conjunction with celebration of 50 years of Luso-Brazilian studies at U of T. Main Display Area. Hours: Monday to Friday, 8:30 a.m. to 12 midnight; Saturday, 9 a.m. to 10 p.m.; Sunday, 1 to 10 p.m. *Consulate General of Brazil and Spanish & Portuguese*

## MISCELLANY

### Mykhailo Hrushevsky's History of the Ukraine-Rus, Volume 1.

#### MONDAY, SEPTEMBER 29

Book launch for the English-language edition. Keynote speaker, Prof. Ihor Sevcenko, Dumbarton Oaks Professor of Byzantine History & Literature, Emeritus, Harvard University. Common Room, Pontifical Institute of Mediaeval Studies. 4 p.m. *Peter Jacyk Centre for Ukrainian Historical Research, Canadian Institute of Ukrainian Studies, Petro Jacyk Educational Foundation, PIMS and CIUS Press*

### Woodsworth College Book Sale.

#### THURSDAY, OCTOBER 2 TO SATURDAY, OCTOBER 4

Kruger Hall, 119 St. George St. Thursday, 9 a.m. to 8 p.m. (admission \$2, free with student card); Friday and Saturday, 9 a.m. to 6 p.m. *Alumni Association, Woodsworth*

### Document Processing Workshop.

#### THURSDAY, OCTOBER 2

Included will be use of templates, custom work space and cross-application document merging. 1st floor, Robarts Library. 12 noon to 1 p.m. Registration: 978-4360; fax, 971-2629; general.atrc@utoronto.ca. *Adaptive Technology Resource Centre, Information Commons*

### Information Commons Open House.

#### FRIDAY, OCTOBER 3

Things to see and do include tours, surfing the Internet, creating a Web page, braille printing and a videoconferencing robot. 1st floor, Robarts Library. 2 to 4 p.m.

### Career Planning Workshops.

#### TUESDAYS, OCTOBER 7 TO OCTOBER 21; THURSDAYS,

#### OCTOBER 9 TO OCTOBER 23

Workshops include understanding trends that are redefining the workplace, building your own personal career profile and creating an "action plan" that meets your professional development needs. 12 noon to 2 p.m. Information: Thomas Nash, 978-7573; registration: Liz Cshiha, 978-6496. *Staff Development Resource Centre*

### Access Technology and Ergonomic Workspace Issues.

#### THURSDAY, OCTOBER 10

Demonstration of the use and creation of alternative keyboards and pointing devices; switch access and voice input will also be shown. 1st floor, Robarts Library. 12 noon to 1 p.m. Registration: 978-4360; fax, 971-2629; general.atrc@utoronto.ca. *Adaptive Technology Resource Centre, Information Commons*



# CLASSIFIED

A classified ad costs \$15 for up to 35 words and \$.50 for each additional word (maximum 70). Your phone number counts as one word, but the components of your address will each be counted as a word. A cheque or money order payable to **University of Toronto** must accompany your ad. Ads must be submitted in writing, 10 days before *The Bulletin* publication date, to **Nancy Bush, Department of Public Affairs, 21 King's College Circle, Toronto, Ontario M5S 3J3**. Ads will not be accepted over the phone. To receive a tearsheet and/or receipt please include a stamped self-addressed envelope. For more information please call: (416) 978-2106.

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**Davisville/Yonge subway.** Clean, comfortably furnished, quiet 1-bedroom available mid-December or later for 6 months (negotiable for longer term). \$950 + utilities. Parking additional. No pets/smokers. References. (416) 482-8234. After 7 p.m. (416) 484-8719.

**House for lease, Royal York/Bloor.** (South Kingsway. 10 houses south of subway station.) \$1,600 + utilities. 3 bedrooms, 2 bathrooms, fireplace, sun-deck, optional air, 2 parking spots, washer/dryer, 20 minutes downtown. Laura, (416) 236-3621.

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**Dr. Dianne Fraser, Psychologist.** Carlton at Berkeley, 923-7146. Brief holistic counselling and EMDR. Focus on stress, depression, anxiety, phobia, grief, substance abuse, relationships, women's issues. Complete or partial reimbursement through UT/insurance benefits.

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**Psychologist providing individual, group and couple therapy.** Personal and relationship issues. U of T extended health plan provides some coverage for psychological services. For a consultation call Dr. Heather A. White, 535-9432, 140 Albany Avenue (Bathurst/Bloor).

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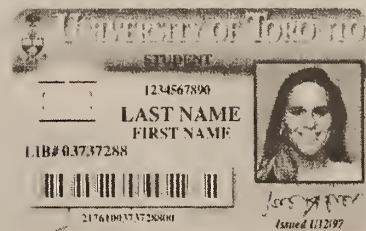
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## PHD ORALS

Graduate faculty please call the PhD examinations office at 978-5258 for information regarding time and location for these listings.

TUESDAY, SEPTEMBER 30

Neil Alexis, Community Health, "Effects of Indomethacin Pretreatment on Short-Term Ozone Exposure in Asthmatics." Prof. F. Silverman.

Bryce John Cowan, Cellular & Molecular Pathology, "Elafin Inhibition of Fibronectin Synthesis and Inflammatory Cell Proliferation and Reduction of Post-Cardiac Transplant Coronary Arteriopathy and Myocardial Necrosis: In Vitro and in Vivo." Prof. M. Rabinovitch.

Lilian Ulrika Nygren-Junkin, Education, "The Heritage Language Classroom as a Cultural Bridge with Two-Way Traffic." Prof. J. Cummins.

THURSDAY, OCTOBER 2

Jun Du, Physics, "On the Mei-Yu Front and the Associated Potential Vorticity Anomaly." Prof. H.R. Cho.

Carol Anne Kent, French Language & Literature, "Le signe trompeur: une étude du langage ambigu et mensonger dans quelques farces médiévales." Prof. H.S.F. Collins.

David Skuy, History, "The Politics of Assassination: The Death of the Duke of Berry, February 14, 1820." Prof. D.C. Higgins.

FRIDAY, OCTOBER 3

William E. Arnal, Study of Religion, "The Rhetoric of Deracination in Q." Prof. J.S. Kloppenborg.

Jeffrey Alton Dods, Chemistry, "Computational Studies of Polyatomic Spectroscopy." Prof. P.W. Brumer.

Gregory Hein, Political Science, "Social Movements and the Expansion of Judicial Power: Feminists and Environmentalists in Canada (1970-1995)." Prof. P.H. Russell.

Casie Elizabeth Hermansson, English, "Feminist Intertextuality and the Bluebeard Story." Prof. M.J. Levene.

Peter Ibbott, Economics, "Intergenerational Changes in the Distribution of Canadian Living Standards." Prof. G.H. Anderson.

Gregory Duncan Mumford, Near

& Middle Eastern Civilizations, "International Relations between Egypt and Syria-Palestine during the Late Bronze Age, Iron Age and Babylonian Period: A Spatial and Temporal Analysis of the Distribution and Impact of Egyptian(izing) Artefacts and Pottery within the Sinai and 22 Selected Sites in Syria-Palestine (circa 1150-525 BC)." Prof. J.S. Holladay Jr.

Hamid Reza Siahkoobi, Physics, "3-D Seismic Imaging of Complex Structures in Near-Surface Deposits." Prof. G.F. West.

MONDAY, OCTOBER 6

Brenda Assael, History, "The Circus and Respectable Society in Victorian Britain." Prof. R.J. Helmstadter.

TUESDAY, OCTOBER 7

Jeremy Cook, Immunology, "Recombinant Immunotargeting Antigen-Antibody Fusions in Vaccine Design." Prof. B.H. Barber.

Michael S. Kerr, Community Health, "A Case-Control Study of Biomechanical and Psychosocial Risk Factors for Reported Occupational Low-Back Pain." Profs. J. Frank and H. Shannon.

Vahid Safavi-Ardebili, Mechanical & Industrial Engineering, "Micromechanical Characterization of the Interphase Zone in Adhesive Joints." Profs. J.K. Spelt and A.N. Sinclair.

THURSDAY, OCTOBER 9

Dimitar Stefanov Zlatanov, Mechanical & Industrial Engineering, "Generalized Singularity Analysis of Mechanisms." Profs. B. Benhabib and R.G. Fenton.

FRIDAY, OCTOBER 10

Kevin Lam Chee-Keung, Management, "Risk Adjusted Audit Pricing: Theory and Practice." Prof. L.D. Booth.

Meng-Chih Lin, Pharmacy, "Pressure Effects on DNA Helixcoil Transition Kinetics." Prof. R.B. Macgregor.

Teresa Pierre, Medieval Studies, "That We May Glorify Him in Our Bodies: William of St. Thierry's Views of the Human Body." Prof. B.C. Stock.

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### INTERNATIONAL GERMAN ACADEMIC EXCHANGE SERVICE (DAAD)

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### MEDICINE & LIFE SCIENCES ARTHRITIS SOCIETY

For Arthritis Society fellowships, Arthritis Society/MRC fellowships and MRC fellowships candidates must hold the degree of MD, DDS, DVM, PharmD or PhD. The Geoff Carr Lupus Fellowship is designed to train a rheumatologist to be an expert in the management of patients with lupus. Deadline is November 1.

### ASTRA PHARMA INC. & MRC/PMAC HEALTH PROGRAM

Astra Pharma Inc. and the MRC/PMAC Health Program have joined with the Alzheimer Society of Canada and the Canadian Congress of Neurological Sciences to support basic research aimed at further advancing biomedical research in Canada relevant to neurology. Deadline is October 15.

CANADIAN DIABETES ASSOCIATION  
Grants for applied research in diabetes education, management and care encourage research that due to its applied nature or setting may not be supported by traditional funding sources. Deadline is October 15.

### CANADIAN PROSTATE CANCER RESEARCH FUND

The fund invites applications for grants to support high-calibre research into the cause, cure, treatment and prevention of prostate cancer. Categories of research include: basic research projects, clinical research projects and psychological/social educational projects. Deadline is October 31.

### CANADIAN SOCIETY FOR CLINICAL PHARMACOLOGY

The fellowship in clinical pharmacology

is awarded for a term of one year to provide training at a recognized training centre in clinical pharmacology at a university in Canada. Deadline is November 1.

### HANNAH INSTITUTE FOR THE HISTORY OF MEDICINE

The institute supports "Canadian" research on significant issues related to the history of medicine. Funding is available under grants-in-aid, scholarships and fellowships. Deadline is November 1.

### HEART AND STROKE FOUNDATION OF ONTARIO

Two entry-level stroke investigator awards will be offered to highly qualified candidates who have completed all formal academic training and who wish to acquire two to three years of supervised research experience in an established research setting. Scientific fellowships in prevention research are intended for individuals with a PhD or MD in behavioural sciences, epidemiology or related disciplines to begin their post-graduate scientific research career. (http://www.hsf.ca) Deadline is October 31.

### MUSCULAR DYSTROPHY ASSOCIATION OF CANADA

The association invites applications for research grants in fields relevant to neuromuscular diseases. (http://www.mdac.ca) Deadline is October 15.

### NATIONAL ALLIANCE FOR RESEARCH ON SCHIZOPHRENIA & DEPRESSION

Young investigator awards enable promising investigators to either extend their research fellowship training or to begin careers as independent research faculty. Applicant must have a doctoral level degree and already be employed in research training on Oct. 24. Deadline is October 24.

### UPCOMING DEADLINES

#### OCTOBER 1

AUCC — Going Global, Science & Technology with European Partners travel awards

J.P. Bickell Foundation — research grants (internal deadline)

Burroughs Wellcome Fund — career awards

Canadian Association of Gastroenterology/MRC/PMAC Health Program — research initiative award; industry research, helicobacter research fellowships

Canadian Cystic Fibrosis Foundation — research grants, scholarships, fellowships, graduate students

James H. Cummings Foundation — research grants (internal deadline)

Dairy Farmers of Canada — research grants

Hospital for Sick Children Foundation — Duncan L. Gordon fellowships

Novartis Foundation for Gerontological Research — research grants

#### OCTOBER 15

AUCC — AUCC/IDRC sabbatical grants; research cooperation program (Canada and Latin America) travel grants, internships

Kidney Foundation of Canada — biomedical scientific and allied health research (operating) grants, fellowships, scholarships, organ donation research grants

NCIC/Canadian Breast Cancer Research Initiative — research grants

SSHRC — standard research, strategic research grants,

#### OCTOBER 31

Canadian Prostate Cancer Research Fund — research grants

Heart & Stroke Foundation of Ontario — stroke investigator awards, science fellowships

NSERC — equipment grants

National Science Foundation —

Alan T. Waterman Award

#### NOVEMBER 1

Arthritis Society — research fellowships, Geoff Carr Lupus Fellowship

Canadian Liver Foundation — operating, establishment, fellowship grants

Canadian Society for Clinical Pharmacology — fellowships

German Academic Exchange Service (DAAD) — research grants

SSHRC — aid to occasional research conferences, international congresses

#### NOVEMBER 6

Calgary Institute of Humanities visiting post-doctoral fellowships

#### NOVEMBER 15

Social Science Research Council — MacArthur Foundation fellowships

## COMMITTEES

### REVIEW

### INSTITUTE FOR THE HISTORY & PHILOSOPHY OF SCIENCE & TECHNOLOGY

A committee has been established to review the Institute for the History & Philosophy of Science & Technology. Members are: Professor Heather

Jackson, associate dean, Division I, School of Graduate Studies (chair); Professors Brian Baigrie and Mary Winsor, Institute for the History & Philosophy of Science & Technology; Roberta Frank, Centre for Medieval Studies; Richard Helmstadter, history; Alexander Jones, classics; Brian Merrilees, French; and Janet Paterson, associate

dean, humanities, Faculty of Arts & Science; and Rachel Urowitz, graduate student, Centre for the Study of Religion.

The committee would be pleased to receive submissions from interested persons until October 17. These may be mailed to Professor Heather Jackson at the School of Graduate Studies, 65 St. George St.

UNIVERSITY OF TORONTO

## THE BULLETIN

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THERE ARE NOW 300 NATIVE students studying at U of T, which represents a 25 per cent increase over the 1996-97 year. The majority of these students are in the social sciences (56 per cent), followed by law (13 per cent). U of T also has a retention rate of 94 per cent for its native students.

# Cider 'n' Song

## Hart House Farm Saturday, October 18, 1997

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# A UNIVERSE OF HOPE

*Science is not in decline but has much to offer future generations*

BY ROSEANN RUNTE

WHEN JOHN HORGAN, THE EDITOR OF *SCIENTIFIC American*, writes in his recently published book with the gloomy title *The End of Science* that little of significance has been discovered since the age of Newton, we can certainly respond with a list of achievements. When he writes that there is nothing much left to discover at any rate, we can ignore the charge. When he avers that, given the investments made in education and science over the past decades, if it were possible to discover something worthwhile (like a cure for cancer) it would have already been discovered, we certainly must attempt to prove the argument false as we must also refute his later assertions, made in the June 13 issue of *The Chronicle of Higher Education*. In his essay Facing Up to the Decline of Science, Horgan defends his book and maintains that significant progress in science is unlikely and too costly to pursue.

Rather than proclaim, as Horgan does, that "science has entered its twilight," as professors responsible for educating and inspiring future generations, we must be true to our profession. We must believe in the future and the possibilities of the next generation and transmit to our students the discipline, open-mindedness and enthusiasm that will make possible achievements of which we have not yet even dreamt.

A privilege of intellect is the facile use of criticism to condemn the superficiality of the consumer culture of present generations. An example is offered in the latest edition of *Harper's* magazine in which Mark Edmundson, a veteran of the university classroom, muses that liberal education serves mainly to amuse and distract the adolescent consumer. He says that professors are faced with classes filled with young people, the "television generation," whose knowledge is superficial and whose desire is to be entertained. Professors are rated not for their ability to inspire thought but for their ability to homogenize wisdom and make it palatable. In turn professors complain that the history of the universe does not necessarily fit into a 30-second capsule. We attribute this fault to the student. Like film critics at Cannes who blame the demise of art on the viewer, we wax eloquent about modern youths' lack of a specific cultural baggage or a core curriculum that includes grammar, vocabulary and knowledge of the past.

By doing so, however, we fall into the trap identified by Paul Ricoeur, the literary critic who reminds us that hermeneutics and criticism are themselves ideologies. Expressions of hope, which we view disdainfully as naive from our citadels of superiority, require courage. It is relatively easy to criticize, to point out the flaws in a thesis. As we all know, the elaboration of an original concept requires not only hard work but creativity and inspiration.

THE ACHIEVEMENTS OF SCIENCE IN RECENT YEARS, AS OVER the centuries, have been significant. Sometimes they have been unexpected, such as the discovery of heparin which has been effective as a blood-thinning agent when indeed, a clotting agent was the object of the specific research. Some scientific achievements have gone unheralded, unnoticed by the press or unexplained due to their inherent complexity. Who can say what discoveries may yet be made? We do not even know the problems we will be facing, much less the solutions they may require.

At the risk of revealing my unfailing optimism, I would like to affirm that the future of research in all disciplines is exciting and full of promise due to three factors: the (re)discovery of the past, linguistic and cultural exchanges as a result of true

internationalism and interdisciplinarity involving an ongoing dialogue among researchers in all fields.

The future of the past is without limit not only because with each passing second the subject infallibly expands but because new methods, and new respect, are making available knowledge heretofore ignored. For example, curare and quinine were known and used in Africa long before the arrival of Europeans. By reading the French poet and fable writer Jean de La Fontaine's little-known *Ode to Quinine* we learn of forgotten 17th-century applications for the drug, some of which merit our attention today. In northern Australia a lotion that

The physicist Schrödinger demonstrated many years ago that certain conclusions are inevitable. For example, a cat placed in certain conditions will react in a predictable fashion. Indeed we can predict the reaction with a high degree of reliability. However, today some physicists are taking a page from philosophy and are questioning the organization of the experiment and the limitations of the possibilities. Gribbin, an American physicist, writes that we can accept that Schrödinger's cat existed or perhaps did not. Could reality be a perception? Could there be two cats, existing in parallel? Could Jammer's theory of multiple universes, of hidden variables, be an extension of Diderot's 18th-century relativism?

According to Prigogine chaos theory, non-linear mathematics, will make science more acceptable to other cultural traditions. In my opinion it is the dialogue of scientists and philosophers from different, clashing cultural traditions that will be the precursor of new discoveries. The question is not how science will evolve to accept cultural differences but how cultural differences in juxtaposition will change science. Culture will also change. Human history can no longer be a unidirectional study. History will not be, as Karl Popper said in *The Poverty of Historicism*, an illusion but a fusion, an interactive state of constant change. If we could possibly marry many points of view, enriching our interpretation of cultural heritage, we might even arrive at new, breathtaking projections of the future, of a true liberation of the

humanities and science.

Zhou Nanzhao, a Chinese educator and member of the International Commission on Education for the Twenty-First Century, studied the similarities of different philosophies. For example, he compared the environmental movement in North America and Europe with the philosophy of the Taoists in ancient China. He speculated that a truly international education would juxtapose the thoughts of previously isolated cultures, thereby eliminating unfounded prejudice that limits our thoughts and views. If we go beyond these similarities to study the differences and to synthesize them, we might envisage creatively a revolution in philosophy like that of quantum mechanics in physics.

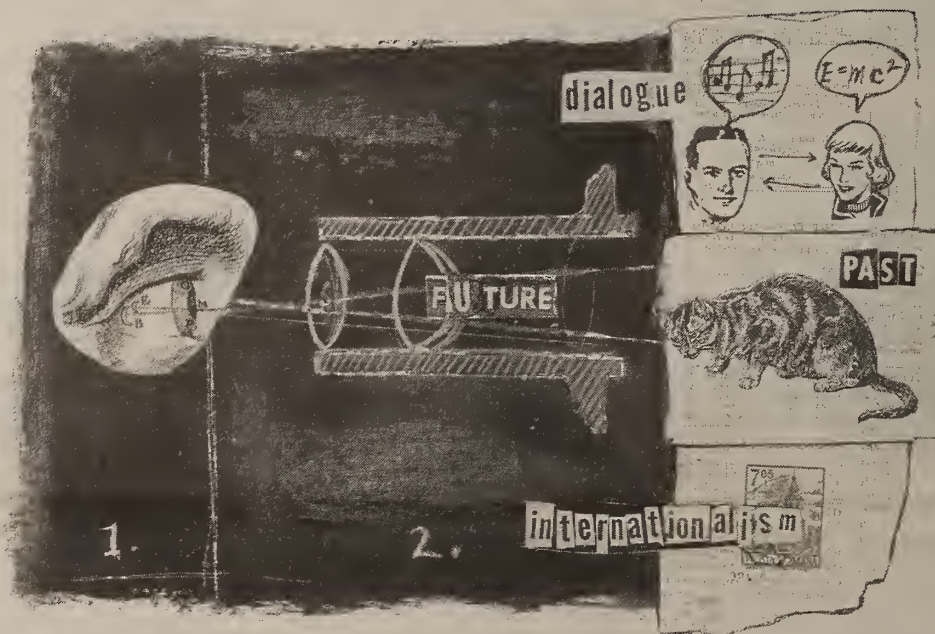
NOT TOO LONG AGO IT WAS REPORTED IN *THE CHRONICLE of Higher Education* that interdisciplinary appointments had the air on several university campuses in the United States fairly "crackling" with excitement. We have to go beyond the several psychologists who teach literature and the literary professor who gives a seminar on detective literature to the criminal law class. I believe that these initiatives are exciting because they allow us to cross boundaries, albeit artificial ones established for administrative ease within the academy. If we can think across the limits set by our disciplines, we can establish new frontiers in ideas.

If we can truly understand another culture and the way people in that culture think and express themselves, we can cross another mental frontier.

If we can rediscover the past from outside the limits set by our cultural and disciplinary prejudices, we remove the barriers of time.

Freed in this fashion, we and our students have unlimited possibilities before us, a whole universe of hope.

Roseann Runte is president of Victoria University at the University of Toronto



cures skin ulcers was recently "discovered" by studying the traditions of members of Aboriginal groups. Only this month it was reported in *The Toronto Star* that volcanic glass, once used as a surgical tool in the past, is once again being employed in some modern operating rooms.

Ilya Prigogine, in an essay entitled *The End of Certitudes*, stated that science is a dialogue with nature and that nature is not a given but a construction in which we all take part. Newton's law relating force to acceleration has two major features. It is deterministic and time reversible. It deals with certitudes and implies symmetries between the past and the future. It has survived and coloured all our scientific thought since the 18th century.

LANGUAGE IS AN EXPRESSION OF CULTURE. WHEN WE describe nature we are not neutrally describing our world. We are shaping it to our thought pattern, our world view. If all we perceive and describe is culturally determined, then so is nature and so is science. I had always been taught to believe that science was cold and hard and dealt with facts. But indeed science is an expression of our culture just as is poetry.

## THE FUTURE OF THE PAST IS WITHOUT LIMIT

As Yugawa the Japanese scientist has noted, scientific thought has essentially been western thought for the last two centuries. He wonders what would happen if we applied different cultural approaches and different fields to science.